APPENDIX B

DETAILED PROJECT COST ESTIMATES

		Diameter (in)	_		
	Length	or	Construction	Mark-up	Capital Project
Project ID	(ft)	Facility Type	Cost	Costs	Cost
-	. ,				
PDLA - A					
Project AAAA	900	24	\$176,731	\$161,048	\$337,780
Project AAA	550	36	\$119,138	\$110,763	\$229,901
Project AC	1000 & 275	36 & 18	\$468,663	\$370,598	\$839,262
Project AFA	2000	Channel	\$27,747	\$65,377	\$93,124
Project AFB	3600	Channel	\$55,520	\$87,702	\$143,222
				•	\$1,643,289
PDLA - B					
Project B	3000	Channel	\$902,270	\$738,144	\$1,640,414
Project BB-1	1100	18	\$138,075	\$123,692	\$261,767
Project BB-2	1700	36	\$320,726	\$258,394	\$579,120
Project BCA	2900	24	\$476,536	\$383,506	\$860,042
Project BCB	925	30	\$215,732	\$176,652	\$392,385
Project BCC	925	36	\$216,583	\$179,032	\$395,615
Project BFA	1600	42	\$418,521	\$342,113	\$760,634
Project BFB-U		Channel	\$63,146	\$65,025	\$128,171
Project BFB-L	800	48	\$192,293	\$178,021	\$370,313
Project BF1	N/A	Sed Basin	\$206,044	\$174,894	\$380,938
Project BJ	270 & N/A	RCB & Sed Basin	\$250,896	\$204,834	\$455,730
Project BJB	N/A	Outlet Structure	\$73,491	\$71,258	\$144,750
Project BL-U	800	39	\$161,971	\$151,804	\$313,775
Project BL-L	20 & 125	90 & Bridge	\$480,638	\$310,417	\$791,055
Project BM	260	RCB	\$336,120	\$188,850	\$524,970
Project BNB	3600	84	\$1,758,011	\$1,446,003	\$3,204,014
Project BN	3600	Channel	\$171,807	\$189,166	\$360,973
Project BQ	800	Spot Enhance	\$61,393	\$59,045	\$120,438
Project BP	N/A & 28	Sed Basin & RCB	\$57,106	\$57,738	\$114,844
DDI A C					\$11,799,947
PDLA - C Project C1	100	BRIDGE	\$1,424,013	\$1,670,184	\$3,094,197
Project C1	90	RCB	\$203,490	\$432,693	\$636,183
Project CA	600	Concrete Channel	\$186,308	\$335,273	\$521,581
r lojeci CA	000	Concrete Charmer	ψ100,300	φυσυ,27υ	\$4,251,961
PDLA - D					ψ+,231,301
Project DBA	360	30	\$68,456	\$70,056	\$138,512
Project DBB	720	30	\$188,803	\$165,804	\$354,608
Project DFA	N/A	Treatment System	\$93,326	\$129,970	\$223,296
Project DQB	2500	36	\$293,896	\$251,928	\$545,824
Project DH	3111	Spot Enhance	\$111,754	\$115,310	\$227,065
Project DZ	100	RCB (2)	\$316,488	\$175,998	\$492,485
-		. ,		•	\$1,981,789

Project Costs

Basin A



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: Sharon Bray Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 03

Estimate Revision Date:: 10/9/2006

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 10/16/2006

PROJECT LOCATION/ITEM DESCRIPTION

Project AAA - Located in Basin A

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project /	AAA												
01 - GE	NERAL REQUIREMENTS												
UI - GE	NERAL REQUIREMENTS												
01200 -	General equipment rental												
	Trench box, 7200 lbs, 6'x 20'	6	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$116.00	\$696.00	\$116 / Day	\$0.00	\$0.00	\$696.00
	Trench Plates allowance	1	Мо	\$0.00	\$0.00	\$0.00	\$0.00	\$500.00	\$500.00	\$500 / Mo	\$0.00	\$0.00	\$500.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$1,196.00		\$0.00	\$0.00	\$1,196.00
02 - SIT	E CONSTRUCTION												
02020 -	Underground marking tape		Clf	\$2.34	\$12.87	\$3.06	\$16.83	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$29.70
	Underground tape, detectable aluminum, 2"	ь	Cit	\$2.34	\$12.87	\$3.06	\$16.83	\$0.00	\$0.00	\$5.4 / CIT	\$0.00	\$0.00	\$29.70
02060 -	Site demolition												
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	427	Sqyd	\$4.76	\$2,032.52	\$0.00	\$0.00	\$3.20	\$1,364.57	\$7.95 / Sqyd	\$0.00	\$0.00	\$3,397.09
	Asphalt disposal - hauling and disposal fee, 4" thick	427	Sqyd	\$0.89	\$380.03	\$4.30	\$1,836.10	\$1.20	\$510.27	\$6.38 / Sqyd	\$0.00	\$0.00	\$2,726.40
02170 -	Saw cutting												
	Saw cutting, asphalt, up to 3" deep	1112	Lnft	\$0.78	\$867.36	\$0.15	\$166.80	\$0.40		\$1.33 / Lnft	\$0.00	\$0.00	\$1,484.18
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	1112	Lnft	\$0.46	\$511.52	\$0.04	\$44.48	\$0.24	\$262.16	\$0.73 / Lnft	\$0.00	\$0.00	\$818.16
02310 -	Fine grade												
	Fine grade under asphalt	427	Sqyd	\$0.77	\$328.79	\$0.00	\$0.00	\$0.16	\$70.03	\$0.93 / Sqyd	\$0.00	\$0.00	\$398.82
02220 -	Backfill												
02320 -	Backfill, dozer backfilling, trench, no compaction	853	Cuyd	\$0.71	\$605.63	\$0.00	\$0.00	\$1.17	\$999.78	\$1.88 / Cuyd	\$0.00	\$0.00	\$1,605.41
00040													
02340 -	Bedding Bedding, crushed stone 3/4" to 1/2"	143	Cuyd	\$7.64	\$1,092.52	\$20.73	\$2.964.39	\$1.73	\$247.50	\$30.1 / Cuyd	\$0.00	\$0.00	\$4.304.41
			,-	.	V 1,002102	4=00	 ,00	*****	72.000		,,,,,	70.00	* ',***
02360 -	Compaction												
	Backfill Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2	853	Cuyd	\$1.76	\$1,501.28	\$0.00	\$0.00	\$0.47		\$2.22 / Cuyd	\$0.00	\$0.00	\$1,898.07
	Subgrade Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes Bedding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	61 853	Cuyd Cuyd	\$1.76 \$1.76	\$107.54 \$1,501.28	\$0.00 \$0.00	\$0.00 \$0.00	\$0.47 \$0.47		\$2.22 / Cuyd \$2.22 / Cuyd	\$0.00 \$0.00	\$0.00 \$0.00	\$135.96 \$1,898.07
	bodding compaction, rammer tampon, or to 11 ; 1 mile; 2 paces	000	ouyu	Ų o	ψ1,001.20	ψ0.00	ψ0.00	ψ0.11	\$	ψ2.227 σαγα	ψο.σο	ψο.σσ	\$1,000.01
02450 -	Excavating, trench												
	Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	1140	Cuyd	\$1.73	\$1,972.20	\$0.00	\$0.00	\$1.30	\$1,486.06	\$3.03 / Cuyd	\$0.00	\$0.00	\$3,458.26
02460 -	Hauling												
	Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI RT, 0.4 lds/hr	376	Cuyd	\$7.18	\$2,701.12	\$3.00	\$1,128.60	\$15.45	\$5,810.89	\$25.62 / Cuyd	\$0.00	\$0.00	\$9,640.61
	Loading Trucks, F.E. Loader, 3 C.Y	376	Cuyd	\$0.66	\$248.29	\$0.00	\$0.00	\$1.13		\$1.79 / Cuyd	\$0.00	\$0.00	\$674.74
	Disposal fee	19	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$1,975.05	\$1,975.05
02490 -	Erosion control												
	Erosion control allowance: small site: silt fence, bio bags, no special	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1536 / Lsum	\$0.00	\$1,536.00	\$1,536.00
02570 -	Catch basins or manholes												
	Cleanout	1	Each	\$926.00	\$926.00	\$1,300.00	\$1,300.00	\$226.00			\$0.00	\$0.00	\$2,452.00
	Catch bsns or manholes, curb inlet FR, grate, large 24"x36" heavy	4	Each	\$534.28	\$2,137.12	\$471.57	\$1,886.28	\$0.00	\$0.00	\$1005.85 / Each	\$0.00	\$0.00	\$4,023.40
02600 -	Base course												
	Base course, large areas, crushed 3/4" stone, compacted to 9" deep	427	Sqyd	\$0.73	\$311.71	\$6.88	\$2,937.76	\$0.93	\$397.44	\$8.54 / Sqyd	\$0.00	\$0.00	\$3,646.91
02610 -	Asphalt concrete pavement												

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
	Asphaltic conc pavement, pavement replacement over trench, 4" thick	427	Sqyd	\$31.92	\$13,629.84	\$7.22	\$3,082.94	\$2.73	\$1,165.89	\$41.87 / Sqyo	\$0.00	\$0.00	\$17,878.67
02640 - L	Lines on pav't												
	Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	550	Lnft	\$0.11	\$60.50	\$0.13	\$71.50	\$0.07	\$38.50	\$0.31 / Lnf	t \$0.00	\$0.00	\$170.50
02840 - L	_andscaping												
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$4,878.00	\$4,878.00
02900 - F	Pot Holing												
	Pot Holing - pipe lines: 2 per 100'	11	Each	\$222.90	\$2,451.90	\$0.00	\$0.00	\$25.22	\$277.42	\$248.12 / Each	\$0.00	\$0.00	\$2,729.32
	SITE CONSTRUCTION Total				\$33,380.01		\$15,435.68		\$14,555.00		\$0.00	\$8,389.05	\$71,759.74
15 - MEC	CHANICAL												
15090 - F	Pipe,drng&sewage,concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 36" dia	550	Lnft	\$37.83	\$20,806.50	\$32.80	\$18,040.00	\$12.50	\$6,875.00	\$83.13 / Lnf	\$0.00	\$0.00	\$45,721.50
	Piping, water dist, conc pipe, gasket, 36" dia	55	Each	\$2.85	\$156.75	\$5.53	\$304.15	\$0.00	\$0.00	\$8.38 / Each	\$0.00	\$0.00	\$460.90
	MECHANICAL Total				\$20,963.25		\$18,344.15		\$6,875.00		\$0.00	\$0.00	\$46,182.40
	Project AAA Total	550	LF		\$54,343.26		\$33,779.83		\$22,626.00		\$0.00	\$8,389.05	\$119,138.14
	Grand Total				\$54,343.26		\$33,779.83		\$22,626.00		\$0.00	\$8,389.05	\$119,138.14

Category	Percent	Amount
Labor	45.61%	\$54,343
Material	28.35%	\$33,780
Equipment	18.99%	\$22,626
Subcontractor	0.00%	\$0
Other	7.04%	\$8,389
Net Costs		\$119,138
Labor Mark-up	18.00%	\$9,782
Material Mark-up	15.00%	\$5,067
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$3,394
Sales tax (material)	7.75%	\$2,618
Sales tax (equipment)	7.75%	\$1,754
Material Shipping & Handling	2.50%	\$844
Worker's Travel/Subsistence	0.10%	\$54
Subtotal		\$142,651
Contractor General Conditions	12.00%	\$17,118
Subtotal	12.0070	\$159,769
Earthquake Insurance	0.10%	\$160
Subtotal	3.1.6,0	\$159,929
Construction Contingency	25.00%	\$39,982
Subtotal		\$199,911
Bldg Risk, Liability Auto Ins.	2.00%	\$3,998
Subtotal		\$203,909
Performance Bond	1.00%	\$2,039
Payment Bond	1.00%	\$2,039
Subtotal		\$207,988
Engineering Fee	10.00%	\$11,914
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$229,901



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: Jim Warford Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 03

Estimate Revision Date:: 10/9/2006

BC Project Manager:: Chris Herencia Estimate QA/QC Reviewer:: Butch Mathews

Estimate QA/QC Date:: 10/16/2006

PROJECT LOCATION / PROCESS AREA

Project AAAA - Located in Basin A

### Stock Social Science Social Scie	Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Trench Pack 2700 Etc 270 12 Day \$0.00	Project A	AAA												
Trench Pack 2700 Etc 270 12 Day \$0.00	01 - GEN	IERAL REQUIREMENTS												
### STATE CONSTRUCTION Source Sourc			12	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$116.00	\$1,392.00	\$116 / Day	\$0.00	\$0.00	\$1,392.0
2- SITE COUNTRILLOTION Country			1										\$0.00	\$500.0
Columber			1			\$0.00		\$0.00	·	\$1,892.00	-	\$0.00	\$0.00	\$1,892.0
Columber	02 - SITE	CONSTRUCTION												
Underground tape, detectable aluminum, 2" 9 Cir \$2.34 \$21.06 \$3.00 \$27.5 \$0.00 \$0.00 \$5.4 / Cir \$0.00 \$0.00	02 - SITE	CONSTRUCTION												
Seed of the Compaction Seed of the Compact	02020 - L	Underground marking tape												
Size drift, no haufing, pavement removal, bit, 4" to 6" thick		Underground tape, detectable aluminum, 2"	9	Clf	\$2.34	\$21.06	\$3.06	\$27.54	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$48.6
Site dmil. no hauling, pavement removal, bit. 4" to 6" thick	02060 - 5	Site demolition												
Asphald disposal fee, 4' thick 600 Saye \$0.89 \$534.00 \$4.30 \$2.580.00 \$1.20 \$717.01 \$6.38 / Saye \$0.00 \$0.0			600	Savd	\$4.76	\$2 856 00	\$0.00	\$0.00	\$3.20	\$1 917 43	\$7.95 / Savd	\$0.00	\$0.00	\$4,773.4
22/170 - Saw cutting; asphalt, up to 3' deep 1612				.,		* /	*							\$3,831.0
Saw cutting, asphalt, up to 3" deep		rophak disposal mading and disposal roo, 1 thisk	000	Oqya	ψ0.00	φοσ 1.00	ψ1.00	Ψ2,000.00	ψ20	\$11101	\$0.007 6494	φο.σσ	φοισσ	Ψο,οοτ.ο
Saw cutting, asphalt, after 3' deep; each addi inch of depth 1812														
2310 - Fine grade														\$2,418.4
Fine grade under asphalt		Saw cutting, asphalt, after 3" deep; each addl inch of depth	1812	Lnft	\$0.46	\$833.52	\$0.04	\$72.48	\$0.24	\$427.19	\$0.73 / Lnft	\$0.00	\$0.00	\$1,333.1
Fine grade under asphalt	02310 - F	Fine grade												
Bedding, crushed stone 3/4" to 1/2"			600	Sqyd	\$0.77	\$462.00	\$0.00	\$0.00	\$0.16	\$98.41	\$0.93 / Sqyd	\$0.00	\$0.00	\$560.4
Bedding, crushed stone 3/4" to 1/2"														•
Import backfill, crushed stone 3/4" to 1/2" 444 Cuyd \$6.18 \$2,746.39 \$20.73 \$9,212.41 \$1.51 \$669.04 \$28.41 / Cuyd \$0.00 \$0.00			404	01	67.04	\$0.04F.00	#00.70	#0.705.00	£4.70	₽ 700.40	f00.4 / 0d	#0.00	#0.00	£40,000 A
Subgrade Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes 67 Cuyd \$1.76 \$117.39 \$0.00 \$0.00 \$0.47 \$31.03 \$2.22 / Cuyd \$0.00 \$0				,		. ,							* * * * * * * * * * * * * * * * * * * *	\$12,669.4 \$12,627.8
Subgrade Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes 67		import backfill, crushed stone 3/4 to 1/2	444	Cuyu	φ0.10	\$2,740.39	\$20.73	φ9,212.41	φ1.31	\$669.04	\$26.41 / Cuyu	\$0.00	\$0.00	\$12,027.0
Bedding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes 362 Cuyd \$1.76 \$637.12 \$0.00 \$0	02360 - 0	Compaction												
02450 Excavating, trench Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac 867 Cuyd \$1.73 \$1.499.91 \$0.00 \$0.00 \$1.30 \$1.130.19 \$3.03 / Cuyd \$0.00 \$0.00													\$0.00	\$148.4
Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-10, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-10, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-10, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 1-1/2 CY hyd bac Excavate trench, cont ftg		Bedding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	362	Cuyd	\$1.76	\$637.12	\$0.00	\$0.00	\$0.47	\$168.39	\$2.22 / Cuyd	\$0.00	\$0.00	\$805.5
Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-10, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-10, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 4'-10, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 1-1/2 CY hyd bac Excavate trench, cont ftg, no sht or dewtrg, 1-1/2 CY hyd bac Excavate trench, cont ftg	02450 - F	Excavating trench												
02460 - Hauling Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI 867 Cuyd \$7.18 \$6,225.06 \$3.00 \$2,601.00 \$15.45 \$13.392.00 \$25.62 / Cuyd \$0.00 \$0.00 Loading Trucks, F.E. Loader, 3 C.Y 867 Cuyd \$0.66 \$572.22 \$0.00 \$0.00 \$0.00 \$1.13 \$982.80 \$1.79 / Cuyd \$0.00 \$0.00 Disposal fee 43 Trk \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$1.05 / Trk \$0.00 \$4.551.75 02490 - Erosion control Erosion control allowance: small site: silt fence, bio bags, no special 1 Lsum \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$1536 / Lsum \$0.00 \$1,536.00 02570 - Catch basins or manholes CB or manholes, conc. precast, 4' ID, 6' deep 3 Each \$497.85 \$1,493.55 \$482.94 \$1,448.82 \$135.67 \$407.00 \$1116.45 / Each \$0.00 \$0.00 CB or manholes, conc. precast, 8" thick, 4' dia 3 Each \$143.28 \$429.84 \$177.27 \$531.81 \$32.50 \$97.50 \$353.05 / Each \$0.00 \$0.00 CB or manholes, conc. slab tops, precast, 8" thick, 8' dia 1 Each \$143.28 \$429.84 \$177.27 \$531.81 \$32.50 \$97.50 \$353.05 / Each \$0.00 \$0.00 CB or manholes, conc. slab tops, precast, 8" thick, 8' dia 1 Each \$143.28 \$429.84 \$177.27 \$531.81 \$32.50 \$97.50 \$353.05 / Each \$0.00 \$0.00 CB or manholes, conc. slab tops, precast, 8" thick, 8' dia 1 Each \$143.28 \$143.28 \$177.27 \$531.81 \$32.50 \$97.50 \$353.05 / Each \$0.00 \$0.00 CB or manholes, for and covs, hvy traffic, 24" diam, 400 lb. 1 Each \$143.28 \$144.85 \$179.54 \$538.62 \$50.00 \$150.00 \$376.49 / Each \$0.00 \$0.00 CB or manholes, frs and covs, hvy traffic, 24" diam, 400 lb. 1 Each \$140.95 \$440.85 \$179.54 \$538.62 \$50.00 \$150.00 \$376.49 / Each \$0.00 \$0.00 CB or manholes, inverts, triple channel brick, concrete		5	867	Cuvd	\$1.73	\$1,499,91	\$0.00	\$0.00	\$1.30	\$1,130,19	\$3.03 / Cuvd	\$0.00	\$0.00	\$2,630.1
Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI		, , , , , , , , , , , , , , , , , , ,		,	· · · · · ·	, , , , , , , , , , , , , , , , , , , ,	•	*	•	, , , , , , , , , , , , , , , , , , , ,		•	*	
Loading Trucks, F.E. Loader, 3 C.Y Cuyd \$0.66 \$572.22 \$0.00 \$0.00 \$0.00 \$1.13 \$982.80 \$1.79 / Cuyd \$0.00 \$0.00	02460 - F	•												
Disposal fee				,										\$22,218.0
CB or manholes, conc, precast, 8' Ib., 6' deep 1 Each \$497.85 \$1,493.55 \$482.94 \$1,448.82 \$135.67 \$407.00 \$1116.45 / Each \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$1,536 / Lsum \$0.00 \$0.00 \$0.00 \$0.00 \$1,536 / Lsum \$0.00 \$1,536 / Lsum \$0.00 \$0							*						* * * * * * * * * * * * * * * * * * * *	\$1,555.0
Erosion control allowance: small site: silt fence, bio bags, no special 1 Lsum \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$1536 / Lsum \$0.00 \$1,536.00		Disposal fee	43	ITK	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / 1fk	\$0.00	\$4,551.75	\$4,551.7
O2570 - Catch basins or manholes Beach \$497.85 \$1,493.55 \$482.94 \$1,448.82 \$135.67 \$407.00 \$1116.45 / Each \$0.00 \$0.00 Junction structure manholes, concrete, precast, 8' I.D., 8' deep, 1 Each \$1,159.50 \$1,159.50 \$3,130.18 \$3,130.18 \$282.00 \$282.00 \$4571.68 / Each \$0.00 \$0.00 CB or manholes, concrete, precast, 8" thick, 4' dia 3 Each \$143.28 \$429.84 \$177.27 \$531.81 \$32.50 \$97.50 \$363.05 / Each \$0.00 \$0.00 Cleanout 2 Each \$926.00 \$1,852.00 \$1,300.00 \$2,600.00 \$226.00 \$452.00 \$2452 / Each \$0.00 \$0.00 CB or manholes, conc, slab tops, precast, 8" thick, 8' dia 1 Each \$143.28 \$143.28 \$312.49 \$312.49 \$32.50 \$32.50 \$488.27 / Each \$0.00 \$0.00 Catch bsns or manholes, frs and covs, hvy traffic, 24" diam, 400 lb. 3 Each \$146.95 \$440.85 \$179.54 \$538.62 \$50.00 \$150.00 \$376.49 / Each \$0.00 \$0.00 Catch bsns or manholes, frs and covs, hvy traffic, 36" diam, 1150 lb. 1 Each \$309.20 \$522.71 \$522.71 \$75.00 \$75.00 \$906.	02490 - E	Erosion control												
CB or manholes, conc, precast, 4' ID, 6' deep 3 Each \$497.85 \$1,493.55 \$482.94 \$1,448.82 \$135.67 \$407.00 \$1116.45 / Each \$0.00 \$0.00 \$1		Erosion control allowance: small site: silt fence, bio bags, no special	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1536 / Lsum	\$0.00	\$1,536.00	\$1,536.0
CB or manholes, conc, precast, 4' ID, 6' deep 3 Each \$497.85 \$1,493.55 \$482.94 \$1,448.82 \$135.67 \$407.00 \$1116.45 / Each \$0.00 \$0.00 \$0.00 \$1.00	00570	Octob having an anatholic												
Junction structure manholes, concrete, precast, 8' I.D., 8' deep, CB or manholes, conc, slab tops, precast, 8" thick, 4' dia Each \$143.28 \$42.84 \$177.27 \$531.81 \$32.50 \$97.50 \$353.05 / Each \$0.00			2	Eoob	¢407.05	\$1 402 EE	¢492.04	¢4 440 00	¢125 67	¢407.00	\$1116 45 / Each	00.00	00.00	\$3,349.3
CB or manholes, conc, slab tops, precast, 8" thick, 4' dia 3 Each \$143.28 \$429.84 \$177.27 \$531.81 \$32.50 \$97.50 \$353.05 / Each \$0.00			1											\$4,571.6
Cleanout 2 Each \$926.00 \$1,852.00 \$1,300.00 \$2,600.00 \$26.00 \$452.00 \$2452 / Each \$0.00 \$0.00 CB or manholes, conc, slab tops, precast, 8" thick, 8' dia 1 Each \$143.28 \$143.28 \$312.49 \$312.49 \$32.50 \$488.27 / Each \$0.00 \$0.00 Catch bsns or manholes, frs and covs, hvy traffic, 24" diam, 400 lb. 3 Each \$146.95 \$440.85 \$179.54 \$538.62 \$50.00 \$376.49 / Each \$0.00 \$0.00 Catch bsns or manholes, frs and covs, hvy traffic, 36" diam, 1150 lb. 1 Each \$309.20 \$309.20 \$522.71 \$75.00 \$75.00 \$906.91 / Each \$0.00 \$0.00 CB or manholes, inverts, single channel brick, concrete 3 Each \$132.85 \$398.55 \$61.00 \$183.00 \$0.00 \$193.85 / Each \$0.00 CB or manholes, inverts, triple channel, conc 1 Each \$165.52 \$165.52 \$69.88 \$0.00 \$0.00 \$235.4 / Each \$0.00 \$0.00			3											\$1,059.1
CB or manholes, conc, slab tops, precast, 8" thick, 8' dia 1 Each \$143.28 \$143.28 \$312.49 \$312.49 \$32.50 \$32.50 \$488.27 / Each \$0.00			2											\$4,904.0
Catch bsns or manholes, frs and covs, hvy traffic, 36" diam, 1150 lb. 1 Each \$309.20 \$309.20 \$522.71 \$522.71 \$75.00 \$906.91 / Each \$0.00 CB or manholes, inverts, single channel brick, concrete 3 Each \$132.85 \$398.55 \$61.00 \$183.00 \$0.00 \$0.00 \$193.85 / Each \$0.00 CB or manholes, inverts, triple channel, conc 1 Each \$165.52 \$165.52 \$69.88 \$0.00 \$0.00 \$235.4 / Each \$0.00 \$0.00			1							\$32.50	\$488.27 / Each			\$488.2
CB or manholes, inverts, single channel brick, concrete 3 Each \$132.85 \$398.55 \$61.00 \$183.00 \$0.00 \$193.85 / Each \$0.00			3											\$1,129.4
CB or manholes, inverts, triple channel, conc 1 Each \$165.52 \$165.52 \$69.88 \$69.88 \$0.00 \$0.00 \$235.4 / Each \$0.00 \$0.00			1										• • • • •	\$906.9
			3				,						\$0.00	\$581.5
CR/manholes steps heavyweight cast iron 12" x 10-1/2" for all con l 6l Eachl \$6.62l \$39.72l \$14.77l \$88.62l \$0.00l \$0.00l \$21.30 / Fachl \$0.00l \$0.00l			1					*					• • • • •	\$235.4
00-mainton, steps, neary magnitudes non, 12 x 10-112, for all control of Each world world world with 12 x 10-112, for all control of the cont		CB/manholes, steps, heavyweight cast iron, 12" x 10-1/2", for all con	6	Each	\$6.62	\$39.72	\$14.77	\$88.62	\$0.00	\$0.00	\$21.39 / Each	\$0.00	\$0.00	\$128.3
02600 - Base course	02600 - F	Base course												
			600	Sqyd	\$0.73	\$438.00	\$6.88	\$4,128.00	\$0.93	\$558.46	\$8.54 / Sqyd	\$0.00	\$0.00	\$5,124.4

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
02610 - A	Asphalt concrete pavement		Sqyd	004.00			A 4.000.00	00.70	A4 000 05	A44.07.40			
	Asphaltic conc pavement, pavement replacement over trench, 4" thick	600	Sqyu	\$31.92	\$19,152.00	\$7.22	\$4,332.00	\$2.73	\$1,638.25	\$41.87 / Sqyd	\$0.00	\$0.00	\$25,122.25
02640 - L	Lines on pav't												
	Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	900	Lnft	\$0.11	\$99.00	\$0.13	\$117.00	\$0.07	\$63.00	\$0.31 / Lnft	\$0.00	\$0.00	\$279.00
02840 - L	Landscaping												
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$4,878.00	\$4,878.00
02900 - F	l Pot Holing												
	Pot Holing - pipe lines: 2 per 100'	18	Each	\$222.90	\$4,012.20	\$0.00	\$0.00	\$25.22	\$453.96	\$248.12 / Each	\$0.00	\$0.00	\$4,466.16
	SITE CONSTRUCTION Total				\$51,266.92		\$41,493.62		\$25,204.96		\$0.00	\$10,965.75	\$128,931.25
03 - CON	ICRETE												
03330 - F	Patching concrete												
	Pre-cast concrete wall penetration, non-shrink grout, 24" hole	8	Each	\$68.53	\$548.24	\$90.00	\$720.00	\$0.00	\$0.00	\$158.53 / Each	\$0.00	\$0.00	\$1,268.24
	CONCRETE Total				\$548.24		\$720.00		\$0.00		\$0.00	\$0.00	\$1,268.24
15 - MEC	CHANICAL												
15090 - F	Pipe,drng&sewage,concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 24" dia	900	Lnft	\$22.34	\$20,106.00	\$24.00	\$21,600.00	\$2.60	\$2,340.00	\$48.94 / Lnft	\$0.00	\$0.00	\$44,046.00
	Piping, water dist, conc pipe, gasket, 24" dia	90	Each	\$2.85	\$256.50	\$3.75	\$337.50	\$0.00	\$0.00	\$6.6 / Each	\$0.00	\$0.00	\$594.00
	MECHANICAL Total				\$20,362.50		\$21,937.50		\$2,340.00		\$0.00	\$0.00	\$44,640.00
	Project AAAA Total				\$72,177.66		\$64,151.12		\$29.436.96		\$0.00	\$10,965.75	\$176,731.49
	,												
	Grand Total				\$72,177.66		\$64,151.12		\$29,436.96		\$0.00	\$10,965.75	\$176,731.49

Category	Percent	Amount
Labor	40.84%	\$72,178
Material	36.30%	\$64,151
Equipment	16.66%	\$29,437
Subcontractor	0.00%	\$0
Other	6.20%	\$10,966
Net Costs		\$176,731
Labor Mark-up	18.00%	\$12,992
Material Mark-up	15.00%	\$9,623
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$4,416
Sales tax (material)	7.75%	\$4,972
Sales tax (equipment)	7.75%	\$2,281
Material Shipping & Handling	2.50%	\$1,604
Worker's Travel/Subsistence	0.10%	\$72
Subtotal		\$212,691
Contractor General Conditions	12.00%	\$25,523
Subtotal	12.0070	\$238,214
Earthquake Insurance	0.10%	\$238
Subtotal	3.1.0,0	\$238,452
Construction Contingency	25.00%	\$59,613
Subtotal		\$298,065
Bldg Risk, Liability Auto Ins.	2.00%	\$5,961
Subtotal		\$304,026
Performance Bond	1.00%	\$3,040
Payment Bond	1.00%	\$3,040
Subtotal		\$310,107
Engineering Fee	10.00%	\$17,673
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$337,780



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: Jim Warford

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 03

Estimate Revision Date:: 10/9/2006

BC Project Manager:: Chris Herencia Estimate QA/QC Reviewer:: Butch Mathews

Estimate QA/QC Date:: 10/16/2006

PROJECT LOCATION / PROCESS AREA

Project AC - Located in Basin A

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project A	C												
04 054	IEDAL DEGLIDEMENTO												
01 - GEN	IERAL REQUIREMENTS												
01200 /	General equipment rental												
01200 - 0	Trench box, 9500 lbs, 8'x 20'	20	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$131.75	\$2,635.00	\$131.75 / Day	\$0.00	\$0.00	\$2,635.00
	1101011 000, 3300 103, 0 x 20	20	Day	Ψ0.00	ψ0.00	ψ0.00	ψ0.00	ψ131.73	Ψ2,000.00	ψ131.737 Day	ψ0.00	ψ0.00	Ψ2,000.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$2,635,00		\$0.00	\$0.00	\$2,635,00
					******		******		V =,000.00		, , ,	70.00	*** ,
02 - SITE	CONSTRUCTION												
02020 - U	Underground marking tape												
	Underground tape, detectable aluminum, 2"	13	Clf	\$2.34	\$29.84	\$3.06	\$39.02	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$68.85
02060 - 3	Site demolition												
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	436	Sqyd	\$4.76	\$2,074.55	\$0.00	\$0.00	\$3.20	\$1,392.79			\$0.00	\$3,467.34
	Asphalt disposal - hauling and disposal fee, 4" thick	436	Sqyd	\$0.89	\$387.89	\$4.30	\$1,874.07	\$1.20	\$520.83	\$6.38 / Sqyc	\$0.00	\$0.00	\$2,782.78
00470	2												
	Saw cutting	0000	1 61	0.70	£4.770.40	CO 45	#040.00	CO 40	#000 74	04 00 / L = #	#0.00	#0.00	#0.040.44
	Saw cutting, asphalt, up to 3" deep	2280 2280	Lnft Lnft	\$0.78 \$0.46	\$1,778.40 \$1,048.80	\$0.15 \$0.04	\$342.00 \$91.20	\$0.40 \$0.24	\$922.71 \$537.53	\$1.33 / Lnft \$0.73 / Lnft		\$0.00 \$0.00	\$3,043.11 \$1,677.53
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	2280	Lnit	\$0.46	\$1,046.60	\$0.04	\$91.20	\$0.24	• фээл.ээ	\$0.737 LNI	\$0.00	\$0.00	\$1,077.53
02320 - L	Rackfill												
02320 - 1	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	1568	Cuyd	\$0.71	\$1,113.21	\$0.00	\$0.00	\$1.17	\$1,837.70	\$1.88 / Cuyo	\$0.00	\$0.00	\$2,950.91
	Backfill, dozer backfilling, trench, up to 300' haul, no compaction,	391	Cuyd	\$0.71	\$277.61	\$0.00	\$0.00	\$1.17					\$735.89
			,-	****	4	******	******	*****	V	Q. Coo, Coo, C		70.00	********
02340 - I	Bedding												
				\$7.64	\$7,349.00	\$20.73	\$19,938.00		\$1,665.00				\$28,952.00
	Bedding, crushed stone 3/4" to 1/2"	962	Cuyd	\$7.64	\$7,348.15	\$20.73	\$19,938.11	\$1.73	\$1,664.65	\$30.1 / Cuyo	\$0.00	\$0.00	\$28,950.92
02360 - 0	Compaction	007		A4 70	04 455 70	# 0.00		00.47	000474	00.00.40		A 0.00	* * * * * * * * * * * * * * * * * * *
	Compaction, trench, walk behind, vib. plate, bedding	827	Cuyd	\$1.76	\$1,455.70	\$0.00	\$0.00	\$0.47	\$384.74			\$0.00	\$1,840.44
	Compaction, trench, walk behind, vib. plate, subgrade	129	Cuyd	\$1.76	\$226.86	\$0.00	\$0.00	\$0.47					\$286.82
	Compaction, trench, walk behind, vib. plate, backfill	1411	Cuyd	\$1.76	\$2,483.54	\$0.00	\$0.00	\$0.47	\$656.40			\$0.00	\$3,139.94
	Compaction, struct. or trench, walk behind, vib. plate subgrade Compaction, struct. or trench, walk behind, vib. plate bedding	111 167	Cuyd Cuyd	\$1.76 \$1.76	\$195.36 \$293.92	\$0.00 \$0.00	\$0.00 \$0.00	\$0.47 \$0.47	\$51.63 \$77.68			\$0.00 \$0.00	\$246.99 \$371.60
	Compaction, struct. or trench, walk behind, vib. plate bedding	391	Cuyd	\$1.76	\$688.16	\$0.00	\$0.00	\$0.47					\$870.04
	Compaction, struct. or trenen, waik bening, vib. plate backlill channel	331	Cuyu	φ1.70	φ000.10	φ0.00	φ0.00	\$0.47	φ101.00	\$2.22 / Cuyo	φυ.υυ	φυ.υυ	φ070.04
02420 - 1	Excavating, structural												
	Excavating, structural, mach excav, com earth, hyd backhoe, 2 CY	890	Cuyd	\$4.67	\$4,156.30	\$0.00	\$0.00	\$6.13	\$5,458.00	\$10.8 / Cuyo	\$0.00	\$0.00	\$9,614.30
	, ,		,	•	, ,	,	***	, ,		, , .			
02450 - I	Excavating, trench												
	Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	2518	Cuyd	\$1.73	\$4,356.31	\$0.00	\$0.00	\$1.30	\$3,282.50	\$3.03 / Cuyo	\$0.00	\$0.00	\$7,638.81
02460 - I	Hauling												
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	1580	Cuyd	\$5.41	\$8,545.64	\$0.00	\$0.00	\$9.45					\$23,476.36
	Hauling, LCY, no loading, 20 c.y. dump truck, 20 MI RT, 0.4 lds/hr,	499	Cuyd	\$5.41	\$2,699.59	\$0.00	\$0.00	\$9.45					\$7,416.25
	Loading Trucks, F.E. Loader, 3 C.Y	1580	Cuyd	\$0.66	\$1,042.54	\$0.00	\$0.00						\$2,833.11
	Loading Trucks, F.E. Loader, 3 C.Y, channel	499	Cuyd	\$0.66	\$329.34	\$0.00	\$0.00	\$1.13	\$566.00	\$1.79 / Cuyo	\$0.00	\$0.00	\$895.34
02570 - 0	Catch basins or manholes												
	Catch basins or manholes, concrete, precast, 6' I.D., 6' deep	6	Each	\$764.16	\$4,584.96	\$1,079.50	\$6,477.00	\$173.20	\$1.039.20	\$2016.86 / Each	\$0.00	\$0.00	\$12,101.16
	, 0 4449	1		Ţ. J O	ţ ., 1100	Ţ.,I. I.00	42,100	ŢJ.20	Ţ:,I30.20		70.00	72.00	Ţ. <u>_</u> ,.J
02610 - 7	Asphalt concrete pavement												
	Asphaltic conc pavement, pavement replacement over trench, 4"	436	Sqyd	\$31.92	\$13,911.69	\$7.22	\$3,146.69	\$2.73	\$1,190.00	\$41.87 / Sqyo	\$0.00	\$0.00	\$18,248.39

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
	SITE CONSTRUCTION Total				\$66,377.35		\$51,846.09		\$43,385.44		\$0.00	\$0.00	\$161,608.88
	SITE CONCINCOTION TOTAL				ψ00,577.55		ψ51,040.05		Ψ+0,000.++		Ψ0.00	Ψ0.00	Ψ101,000.00
03 - CON	NCRETE												
02000	Forms place, slab grade												
03090 - 1	Forms in place, SIGN grade Forms in place, SOG, edge forms, 7" to 12" high, wood, channel	1216	Sfca	\$3.47	\$4,219.52	\$2.81	\$3,416.96	\$0.00	\$0.00	\$6.28 / Sfca	\$0.00	\$0.00	\$7,636.48
03110 - I	Forms in place, walls Forms in place, walls, job built plyform, to 8' high, channel	2400	Sfca	\$6.35	\$15,240.00	\$3.25	\$7,800.00	\$0.00	\$0.00	\$9.6 / Sfca	\$0.00	\$0.00	\$23,040.00
02140 - 1	Welded wire fabric												
03140 - 1	Welded wire fabric, sheets, 4 x 4 - W4 x W4 (4 x 4), 85 lb/CSF,	54	Csf	\$36.61	\$1,976.94	\$29.41	\$1.588.14	\$0.00	\$0.00	\$66.02 / Cst	\$0.00	\$0.00	\$3,565.08
	Welded wire fabric, sheets, 4 x 4 - W4 x W4 (4 x 4), 85 lb/CSF,	12	Csf	\$36.61	\$439.32	\$29.41	\$352.92	\$0.00	\$0.00	\$66.02 / Cst		*	\$792.24
03150 - 0	Concrete, ready mix												
	Headwall	195	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyo		, .,	\$146,250.00
	Concrete, ready mix, regular weight, 4000 psi	104	Cuyd	\$0.00	\$0.00	\$120.00	\$12,480.00	\$0.00	\$0.00	\$120 / Cuyo	\$0.00	\$0.00	\$12,480.00
03170 - I	Placing concrete												
	Placing conc, incl vib, slab on grade, pumped, channel	59	Cuyd	\$22.62	\$1,334.58	\$0.00	\$0.00	\$7.24	\$427.00	\$29.85 / Cuyo	\$0.00	\$0.00	\$1,761.58
	Placing conc, incl vib, walls, pumped, channel	45	Cuyd	\$29.41	\$1,323.45	\$0.00	\$0.00	\$9.42	\$424.00	\$38.83 / Cuyo	\$0.00	\$0.00	\$1,747.45
03180 - I	Finishing floors												
	Finishing slabs, break ties, forms & patch voids	1216	Sqft	\$1.04	\$1,264.64	\$0.03	\$36.48	\$0.00	\$0.00	\$1.07 / Sqf	\$0.00	\$0.00	\$1,301.12
	Finishing floors, monolithic, screed, float, & hand trowel, channel	4800	Sqft	\$0.55	\$2,640.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.55 / Sqff	\$0.00	\$0.00	\$2,640.00
03190 - I	Finishing walls												
	Finishing slabs, break ties, forms & patch voids	2400	Sqft	\$1.04	\$2,496.00	\$0.03	\$72.00	\$0.00	\$0.00	\$1.07 / Sqff			\$2,568.00
	Finishing walls, carborundum rub, wet rub	1200	Sqft	\$1.90	\$2,280.00	\$0.03	\$36.00	\$0.00	\$0.00	\$1.93 / Sqff	\$0.00	\$0.00	\$2,316.00
	CONCRETE Total				\$33,214.45		\$25,782.50		\$851.00		\$0.00	\$146,250.00	\$206,097.95
15 - MEC	CHANICAL												
15000	Pipe,drng&sewage,concret												
15090 - 1	Piping, drainage & sewage, RCP, class 3, no gaskets, 18" dia	275	Lnft	\$17.19	\$4,727.25	\$16.30	\$4,482.50	\$2.00	\$550.00	\$35.49 / Lnft	\$0.00	\$0.00	\$9,759.75
	Piping, drainage & sewage, RCP, class 3, no gaskets, 36" dia	1000	Lnft	\$37.83	\$37,830.00	\$32.80	\$32,800.00	\$12.50	\$12,500.00	\$83.13 / Lnff	\$0.00	\$0.00	\$83,130.00
15205	Cleanouts										1		
15395 - (Cleanouts, flr type, rnd top, xtra hvy dty, 36" pipe size	3	Each	\$719.92	\$2,159.76	\$1,090.65	\$3,271.95	\$0.00	\$0.00	\$1810.57 / Each	\$0.00	\$0.00	\$5,431.71
	MECHANICAL Total				\$44,717.01		\$40,554.45		\$13,050.00		\$0.00	\$0.00	\$98,321.46
	Project AC Total				\$144,308.81		\$118,183.04		\$59,921.44		\$0.00	\$146,250.00	\$468,663.29
	Grand Total				\$144,308.81		\$118,183.04		\$59,921.44		\$0.00	\$146,250.00	\$468,663.29

Category	Percent	Amount
Labor	30.79%	\$144,309
Material	25.22%	\$118,183
Equipment	12.79%	\$59,921
Subcontractor	0.00%	\$0
Other	31.21%	\$146,250
Net Costs		\$468,663
Labor Mark-up	18.00%	\$25,976
Material Mark-up	15.00%	\$17,727
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$8,988
Sales tax (material)	7.75%	\$9,159
Sales tax (equipment)	7.75%	\$4,644
Material Shipping & Handling	2.50%	\$2,955
Worker's Travel/Subsistence	0.10%	\$144
Subtotal		\$538,257
Contractor General Conditions	12.00%	\$64,591
Subtotal		\$602,847
Earthquake Insurance	0.10%	\$603
Subtotal		\$603,450
Construction Contingency	20.00%	\$120,690
Subtotal		\$724,140
Bldg Risk, Liability Auto Ins.	2.00%	\$14,483
Subtotal		\$738,623
Performance Bond	1.00%	\$7,386
Payment Bond	1.00%	\$7,386
Subtotal		\$753,395
Engineering Fee	10.00%	\$46,866
Environmental Permitting (Lump Sum)	-	\$39,000
Total Estimate		\$839,262



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: Sharon Bray Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 11/14/1005

Estimate Revision Number:: 03

Estimate Revision Date:: 10/9/2006

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 10/16/2006

PROJECT LOCATION / PROCESS AREA

Project AFA - Located in Basin A

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project A	FA												
02 - SITE	CONSTRUCTION												
00040 /	Clear and grub												
	Clear & grub, brush, including stumps	0	Acre	\$1,598.62	\$639.45	\$0.00	\$0.00	\$3,351.72	\$1,340.69	\$4950.34 / Acre	\$0.00	\$0.00	\$1,980.14
	Clear & grub, brush, including stumps	U	Acie	\$1,050.02	φ039.43	\$0.00	φ0.00	ψ3,331.72	ψ1,340.03	ψ4930.34 / Acre	\$0.00	\$0.00	\$1,900.14
02420 - E	Excavating												
	Excavation, self prop scraper, 14 CY 1/4 push dozer	500	Cuyd	\$1.15	\$575.00	\$0.00	\$0.00	\$4.75	\$2,375.47	\$5.9 / Cuyd	\$0.00	\$0.00	\$2,950.47
	Compaction												
	Compaction, walk behind, vibrating pl 18" w, 12" lifts, 4 passes,	593	Cuyd	\$1.76	\$1,043.68	\$0.00	\$0.00	\$0.47	\$275.85	\$2.22 / Cuyd	\$0.00	\$0.00	\$1,319.53
00.400	In the second												
02460 - H	3	593	01	64.04	\$794.62	\$0.00	\$0.00	\$2.19	\$1,299.94	\$3.53 / Cuvd	₽ 0.00	\$0.00	#0.004.5 (
	Fill, spread dumped material, by dozer, no compaction	593	Cuyd	\$1.34	\$794.62	\$0.00	\$0.00	\$2.19	\$1,299.94	\$3.53 / Cuya	\$0.00	\$0.00	\$2,094.56
02470 - 5	Soil stabilization												
	Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	1646	Sqyd	\$0.29	\$477.34	\$1.71	\$2,814.66	\$0.00	\$0.00	\$2 / Sqyd	\$0.00	\$0.00	\$3,292.00
02480 - F	Rip-rap												
	Rip-rap, gabions, galv steel mesh boxes, stone filled, 36" deep	100	Cuyd	\$67.91	\$6,791.00	\$42.49	\$4,249.00	\$24.56	\$2,456.00	\$134.96 / Cuyd	\$0.00	\$0.00	\$13,496.00
00.400													
	Erosion control Erosion control allowance:	- 1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2.614.00	\$2,614.00
	LIOSION CONTION ANOWANCE.		LSuffi	φυ.00	φ0.00	φυ.υυ	φ0.00	φυ.υυ	φ0.00	φ2014 / LSUIII	φ0.00	⊅∠,014.00	φ∠,014.00
	SITE CONSTRUCTION Total				\$10,321.09		\$7,063.66		\$7,747.95		\$0.00	\$2,614.00	\$27,746.70
					, 0,02.000		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		21,11100			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,
	Project AFA Total				\$10,321.09		\$7,063.66		\$7,747.95		\$0.00	\$2,614.00	\$27,746.70
	Grand Total				\$10,321.09		\$7,063.66		\$7.747.95		\$0.00	\$2,614.00	\$27,746.70

Category	Percent	Amount
Labor	37.20%	\$10,321
Material	25.46%	\$7,064
Equipment	27.92%	\$7,748
Subcontractor	0.00%	\$0
Other	9.42%	\$2,614
Net Costs		\$27,747
Labar Mark	40.000/	#4.050
Labor Mark-up	18.00%	\$1,858
Material Mark-up	15.00%	\$1,060
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$1,162
Sales tax (material)	7.75%	\$547
Sales tax (equipment)	7.75%	\$600
Material Shipping & Handling	2.50%	\$177
Worker's Travel/Subsistence	0.10%	\$10
Subtotal		\$33,161
Contractor General Conditions	12.00%	\$3,979
Subtotal	12.0070	\$37,140
Earthquake Insurance	0.10%	\$37
Subtotal	51.070	\$37,178
Construction Contingency	25.00%	\$9,294
Subtotal		\$46,472
Bldg Risk, Liability Auto Ins.	2.00%	\$929
Subtotal		\$47,401
Performance Bond	1.00%	\$474
Payment Bond	1.00%	\$474
Subtotal		\$48,349
Engineering Fee	10.00%	\$2,775
Environmental Permitting (Lump Sum)	-	\$42,000
Total Estimate		\$93,124



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: Sharon Bray Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 11/14/2005

Estimate Revision Number:: 03

Estimate Revision Date:: 10/9/2006

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 10/16/2006

PROJECT LOCATION / PROCESS AREA

Project AFB - Located in Basin A

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project A	FB												
02 - SITE	CONSTRUCTION												
00040	Clear and grub												
	Clear & grub, brush, including stumps	1	Acre	\$1,598.62	\$959.17	\$0.00	\$0.00	\$3,351.72	¢2 011 02	\$4950.34 / Acre	\$0.00	\$0.00	\$2,970.21
	Clear & grub, brush, including stumps	1	ACIE	\$1,390.02	φ333.17	φ0.00	φυ.υυ	φ3,331.72	Ψ2,011.03	ψ4930.34 / Acre	\$0.00	φυ.υυ	Ψ2,970.21
02420 - I	Excavating												
	Excavation, self prop scraper, 14 CY 1/4 push dozer	1500	Cuyd	\$1.15	\$1,725.00	\$0.00	\$0.00	\$4.75	\$7,126.42	\$5.9 / Cuyd	\$0.00	\$0.00	\$8,851.42
	Compaction												
	Compaction, walk behind, vibrating pl 18" w, 12" lifts, 4 passes,	1650	Cuyd	\$1.76	\$2,904.00	\$0.00	\$0.00	\$0.47	\$767.53	\$2.22 / Cuyd	\$0.00	\$0.00	\$3,671.53
02460 - I	Hauling												
	Disposal fee	53	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk			\$5,601.75
	Hauling, LCY, no loading, 12 CY dump truck, clear & grub	1067	Cuyd	\$0.97	\$1,034.99	\$0.00	\$0.00	\$2.09			\$0.00		\$3,268.04
	Loading Trucks, F.E. Loader, 3 C.Y, clear & grub	1067	Cuyd	\$0.52	\$554.84	\$0.00	\$0.00	\$0.99					\$1,608.33
	Fill, spread dumped material, by dozer, no compaction	1650	Cuyd	\$1.34	\$2,211.00	\$0.00	\$0.00	\$2.19	\$3,617.04	\$3.53 / Cuyd	\$0.00	\$0.00	\$5,828.04
02470 - 3	Soil stabilization												
	Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	1646	Sqyd	\$0.29	\$477.34	\$1.71	\$2,814.66	\$0.00	\$0.00	\$2 / Sqyd	\$0.00	\$0.00	\$3,292.00
02480 - I	Rin-ran												
	Rip-rap, gabions, galv steel mesh boxes, stone filled, 36" deep	132	Cuyd	\$67.91	\$8,964.12	\$42.49	\$5,608.68	\$24.56	\$3,241.92	\$134.96 / Cuyd	\$0.00	\$0.00	\$17,814.72
02490 - I	Erosion control												
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
	SITE CONSTRUCTION Total				\$18,830.46		\$8,423.34		\$20,050.48		\$0.00	\$8,215.75	\$55,520.04
									-				
	Project AFB Total				\$18,830.46		\$8,423.34		\$20,050.48		\$0.00	\$8,215.75	\$55,520.04
	Grand Total				\$18,830.46		\$8,423.34		\$20,050.48		\$0.00	\$8,215.75	\$55,520.04

Category	Percent	Amount
Labor	33.92%	\$18,830
Material	15.17%	\$8,423
Equipment	36.11%	\$20,050
Subcontractor	0.00%	\$0
Other	14.80%	\$8,216
Net Costs		\$55,520
Labor Mark-up	18.00%	\$3,389
Material Mark-up	15.00%	\$1,264
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$3,008
Sales tax (material)	7.75%	\$653
Sales tax (equipment)	7.75%	\$1,554
Material Shipping & Handling	2.50%	\$211
Worker's Travel/Subsistence	0.10%	\$19
Subtotal		\$65,617
Contractor General Conditions	12.00%	\$7,874
Subtotal	12.0070	\$73,491
Earthquake Insurance	0.10%	\$73
Subtotal	3.1376	\$73,564
Construction Contingency	25.00%	\$18,391
Subtotal		\$91,955
Bldg Risk, Liability Auto Ins.	2.00%	\$1,839
Subtotal		\$93,794
Performance Bond	1.00%	\$938
Payment Bond	1.00%	\$938
Subtotal		\$95,670
Engineering Fee	10.00%	\$5,552
Environmental Permitting (Lump Sum)	-	\$42,000
Total Estimate		\$143,222

Project Costs

Basin B



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: Sharon Bray

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 5/12/2006

Estimate Revision Number:: 03

Estimate Revision Date:: 10/9/2006

BC Project Manager:: Chris Herencia Estimate QA/QC Reviewer:: Bob Ferguson

Estimate QA/QC Date:: 10/16/2006

PROJECT LOCATION / PROCESS AREA

Project B - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project B	3												
02 - SITE	E CONSTRUCTION												
02060 - 3	Site demolition												
	Site dml, conc7" to 24" thick, rod reinforced	25	Cuyd	\$83.33	\$2,083.25	\$0.00	\$0.00	\$55.96	\$1,398.91	\$139.28 / Cuyd	\$0.00	\$0.00	\$3,482.16
02210 - 0	L Clear and grub												
	Clear & grub, brush, including stumps	2	Acre	\$1,598.62	\$3,197.24	\$0.00	\$0.00	\$3,351.72	\$6,703.45	\$4950.34 / Acre	\$0.00	\$0.00	\$9,900.69
	5 7 9 7						•						
02420 - I	Excavating, structural												
	Excavating, structural, mach excav, com earth, hyd backhoe, 3 CY	36000	Cuyd	\$1.46	\$52,560.00	\$0.00	\$0.00	\$4.58	\$164,772.00	\$6.03 / Cuyd		\$0.00	\$217,332.00
	Excavating, structural, mach excav, com earth, hyd backhoe, 3 CY	1000	Cuyd	\$1.46	\$1,460.00	\$0.00	\$0.00	\$4.58	\$4,577.00	\$6.03 / Cuyd	\$0.00	\$0.00	\$6,037.00
00.400													
02430 - I		4.400		01.01	A4 070 00			00.10	40.000.00	A0 50 / O		A 0 0 0	* * * * * * * *
	Fill, spread dumped material, by dozer, no compaction	1400	Cuyd	\$1.34	\$1,876.00	\$0.00	\$0.00	\$2.19	\$3,069.00	\$3.53 / Cuyd	\$0.00	\$0.00	\$4,945.00
02460 - I	Hauling												
	Disposal fee	2	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$210.00	\$210.00
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr,	25	Cuyd	\$6.61	\$165.25	\$0.00	\$0.00	\$9.45	\$236.31	\$16.06 / Cuyd	\$0.00	\$0.00	\$401.56
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	30000	Cuyd	\$5.41	\$162,300.00	\$0.00	\$0.00		\$283,566.47			\$0.00	\$445,866.47
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	2456	Cuyd	\$5.41	\$13,286.96		\$0.00					\$0.00	\$36,501.60
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	1400	Cuyd	\$5.41	\$7,574.00		\$0.00	\$9.45				\$0.00	\$20,807.10
	Loading Trucks, F.E. Loader, 3 C.Y	26000	Cuyd	\$0.66	\$17,160.00	\$0.00	\$0.00					\$0.00	\$46,632.54
	Loading Trucks, F.E. Loader, 3 C.Y, concrete	23	Cuyd	\$0.80	\$18.40	\$0.00	\$0.00	•	\$49.91	\$2.97 / Cuyd		\$0.00	\$68.31
	Loading Trucks, F.E. Loader, 3 C.Y	1400	Cuyd	\$0.66	\$924.00	\$0.00	\$0.00		. ,			\$0.00	\$2,510.98
	Loading Trucks, F.E. Loader, 3 C.Y	2456	Cuyd	\$0.66	\$1,620.96	\$0.00	\$0.00	\$1.13	\$2,784.02	\$1.79 / Cuyd	\$0.00	\$0.00	\$4,404.98
02470 - 5	L Soil stabilization												
02170	Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	507	Sqyd	\$0.29	\$147.03	\$1.71	\$866.97	\$0.00	\$0.00	\$2 / Sqyd	\$0.00	\$0.00	\$1,014.00
02480 - I	, ,	040	01	007.04	£44.000.00	£40.40	\$00.050.00	004 50	£45.470.00	£404.00 / O	# 0.00	#0.00	#00 405 00
	Rip-rap, gabions, galv steel mesh boxes, stone filled, 36" deep	618	Cuyd	\$67.91	\$41,968.38	\$42.49	\$26,258.82	\$24.56	\$15,178.08	\$134.96 / Cuyd	\$0.00	\$0.00	\$83,405.28
	SITE CONSTRUCTION Total				\$306,341.47		\$27,125.79		\$549,842.41		\$0.00	\$210.00	\$883,519.67
									,				
03 - CON	NCRETE												
02150 /	Concrete, ready mix												
03130 - 0	Retaining wall	25	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$18,750.00	\$18,750.00
	Trotaining wan	23	Ouyu	ψ0.00	ψυ.υυ	Ψ0.00	ψ0.00	ψ0.00	ψ0.00	ψ/ 30 / Ouyu	Ψ0.00	ψ10,730.00	ψ10,730.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$18,750.00	\$18,750.00
	Project B Total				\$306,341.47		\$27,125.79		\$549,842.41		\$0.00	\$18,960.00	\$902,269.67
	Grand Total				\$306,341.47		\$27.125.79		\$549,842.41		\$0.00	\$18,960.00	\$902,269.67

Category	Percent	Amount
Labor	33.95%	\$306,341
Material	3.01%	\$27,126
Equipment	60.94%	\$549,842
Subcontractor	0.00%	\$0
Other	2.10%	\$18,960
Net Costs		\$902,270
	40.000/	DEE 4.44
Labor Mark-up	18.00%	\$55,141
Material Mark-up	15.00%	\$4,069
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$82,476
Sales tax (material)	7.75%	\$2,102
Sales tax (equipment)	7.75%	\$42,613
Material Shipping & Handling	2.50%	\$678
Worker's Travel/Subsistence	0.10%	\$306
Subtotal		\$1,089,656
Contractor General Conditions	12.00%	\$130,759
Subtotal		\$1,220,415
Earthquake Insurance	0.10%	\$1,220
Subtotal		\$1,221,635
Construction Contingency	20.00%	\$244,327
Subtotal		\$1,465,962
Bldg Risk, Liability Auto Ins.	2.00%	\$29,319
Subtotal		\$1,495,281
Performance Bond	1.00%	\$14,953
Payment Bond	1.00%	\$14,953
Subtotal		\$1,525,187
Engineering Fee	10.00%	\$90,227
Environmental Permitting (Lump Sum)	-	\$25,000
Total Estimate		\$1,640,414



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: Jim Warford

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 03

Estimate Revision Date:: 5/24/2006

BC Project Manager:: Chris Herencia Estimate QA/QC Reviewer:: Bob Ferguson

Estimate QA/QC Date:: 11/16/2006

PROJECT LOCATION / PROCESS AREA

Project BB-1

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project I	BB-1												
01 - GF	NERAL REQUIREMENTS												
01 - OLI	VELVAL IVE QUITEWEIVIO												
01200 -	General equipment rental												
	Trench box, 7200 lbs, 6'x 20'	25	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$116.00	\$2,900.00	\$116 / Day	\$0.00	\$0.00	\$2,900.00
	Trench Plates allowance	1	Мо	\$0.00	\$0.00	\$0.00	\$0.00	\$500.00	\$500.00	\$500 / Mo	\$0.00	\$0.00	\$500.00
	OFNEDAL DEGUIDENENTO Tara				#0.00		# 0.00		#0.400.00		#0.00	# 0.00	CO 400 0 0
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$3,400.00		\$0.00	\$0.00	\$3,400.00
02 - SIT	E CONSTRUCTION												
	Underground marking tape												
	Underground tape, detectable aluminum, 2"	11	Clf	\$2.34	\$25.74	\$3.06	\$33.66	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$59.40
02060 -	Site demolition								**				
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	672 672	Sqyd	\$4.76	\$3,198.72	\$0.00	\$0.00	\$3.20 \$1.20	\$2,147.52	\$7.95 / Sqyd	\$0.00	\$0.00	\$5,346.24 \$4,290.73
	Asphalt disposal - hauling and disposal fee, 4" thick	0/2	Sqyd	\$0.89	\$598.08	\$4.30	\$2,889.60	\$1.20	\$803.05	\$6.38 / Sqyd	\$0.00	\$0.00	\$4,290.73
02170 -	Saw cutting												
	Saw cutting, asphalt, up to 3" deep	2211	Lnft	\$0.78	\$1,724.58	\$0.15	\$331.65	\$0.40	\$894.79	\$1.33 / Lnft	\$0.00	\$0.00	\$2,951.02
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	2211	Lnft	\$0.46	\$1,017.06	\$0.04	\$88.44	\$0.24	\$521.26	\$0.73 / Lnft	\$0.00	\$0.00	\$1,626.76
02310 -	Fine grade												
	Fine grade, fine grade granular base for sidewalks and bikeways	100	Sqyd	\$0.96	\$96.00	\$0.00	\$0.00	\$0.16	\$16.40	\$1.12 / Sqyd	\$0.00	\$0.00	\$112.40
02220 -	Backfill												
02320 -	Backfill, dozer backfilling, trench, no compaction	1160	Cuyd	\$0.71	\$823.60	\$0.00	\$0.00	\$1.17	\$1,359.61	\$1.88 / Cuyd	\$0.00	\$0.00	\$2,183.21
	Saorini, accor saorining, acron, no compaction		Cuju	ψο	ψ020.00	ψο.σσ	ψ0.00	Ψ	ψ1,000.01	ψ1.007 Cuyu	ψ0.00	ψο.σσ	\$2,100.21
02340 -	Bedding												
	Bedding, crushed stone 3/4" to 1/2"	224	Cuyd	\$7.64	\$1,711.36	\$20.73	\$4,643.52	\$1.73	\$387.69	\$30.1 / Cuyd	\$0.00	\$0.00	\$6,742.57
02360 -	Compaction	4400	01	C4 70	© 0.044.00	#0.00	\$0.00	CO 47	# 500.00	60.00./0	#0.00	#0.00	CO FOL O
	Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	1160 1160	Cuyd Cuyd	\$1.76 \$2.70	\$2,041.60 \$3,132.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.47 \$0.72	\$539.60 \$829.66	\$2.22 / Cuyd \$3.41 / Cuyd	\$0.00 \$0.00	\$0.00 \$0.00	\$2,581.20 \$3,961.66
	Compaction, familier tamper, or to 11, 4 lints, 2 passes	1100	Cuyu	Ψ2.70	ψ3, 132.00	φ0.00	\$0.00	φ0.72	φ029.00	\$3.41 / Cuyu	φ0.00	φ0.00	ψ3,901.00
02450 -	Excavating, trench												
	Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	1456	Cuyd	\$1.73	\$2,518.88	\$0.00	\$0.00	\$1.30	\$1,897.99	\$3.03 / Cuyd	\$0.00	\$0.00	\$4,416.87
02460 -	Hauling											•	
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	296	Cuyd	\$5.41	\$1,601.36	\$0.00	\$0.00	\$9.45	\$2,797.86		\$0.00	\$0.00	\$4,399.22
	Loading Trucks, F.E. Loader, 3 C.Y Disposal fee	296 15	Cuyd Trk	\$0.66 \$0.00	\$195.36 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$1.13 \$0.00	\$335.53 \$0.00	\$1.79 / Cuyd \$105 / Trk	\$0.00 \$0.00	\$0.00 \$1,575.00	\$530.89 \$1,575.00
	Disposariee	13	IIK	ψ0.00	ψ0.00	Ψ0.00	ψ0.00	ψ0.00	ψ0.00	ψ1037 TIK	ψ0.00	ψ1,575.00	ψ1,575.00
02490 -	Erosion control												
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
02570 -	Catch basins or manholes		_									1	
	Cleanout	2	Each	\$926.00	\$1,852.00	\$1,300.00	\$2,600.00	\$226.00	\$452.00		\$0.00	\$0.00	\$4,904.00
	Catch bsns or manholes, curb inlet FR, grate, large 24"x36" heavy Junction Structure	2	Each Each	\$534.28 \$619.52	\$1,068.56 \$619.52	\$471.57 \$5,000.00	\$943.14 \$5,000.00	\$0.00 \$0.00		\$1005.85 / Each \$5619.52 / Each	\$0.00 \$0.00	\$0.00 \$0.00	\$2,011.70 \$5,619.52
	ounction of actars	- '	Lacii	φυ 19.32	φυ 19.32	φ5,000.00	φ5,000.00	φυ.υυ	φ0.00	ψ5013.32 / ĽdCII	φ0.00	φυ.υυ	φ5,019.52
02610 -	Asphalt concrete pavement												-
	Asphaltic conc pavement, pavement replacement over trench, 4"	672	Sqyd	\$31.92	\$21,450.24	\$7.22	\$4,851.84	\$2.73	\$1,834.84	\$41.87 / Sqyd	\$0.00	\$0.00	\$28,136.92
					-					12			
02640 -	Lines on pav't												
	Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	1100	Lnft	\$0.11	\$121.00	\$0.13	\$143.00	\$0.07	\$77.00	\$0.31 / Lnft	\$0.00	\$0.00	\$341.00

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
02840 - L	Landscaping												
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$4,878.00	\$4,878.00
02900 - F	Pot Holing												
	Pot Holing - pipe lines	22	Each	\$222.90	\$4,903.80	\$0.00	\$0.00	\$28.21	\$620.71	\$251.11 / Each	\$0.00	\$0.00	\$5,524.51
	SITE CONSTRUCTION Total				\$48,699.46		\$21,524.85		\$15,515.52		\$0.00	\$9,067.00	\$94,806.83
15 - MEC	CHANICAL												
15090 - F	Pipe,drng&sewage,concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 18" dia	1100	Lnft	\$17.19	\$18,909.00	\$16.30	\$17,930.00	\$2.00	\$2,200.00	\$35.49 / Lnft	\$0.00	\$0.00	\$39,039.00
	Piping, water dist, conc pipe, gasket, 18" dia	110	Each	\$2.85	\$313.50	\$4.69	\$515.90	\$0.00	\$0.00	\$7.54 / Each	\$0.00	\$0.00	\$829.40
	MECHANICAL Total				\$19,222.50		\$18,445.90		\$2,200.00		\$0.00	\$0.00	\$39,868.40
	Project BB-1 Total				CC7 024 0C		¢20.070.75		\$24.445.52		\$0.00	\$9,067.00	\$138,075.23
	Project BB-1 Total				\$67,921.96		\$39,970.75		\$21,115.52		\$0.00	\$9,067.00	\$138,075.23
	Grand Total				\$67,921.96		\$39,970.75		\$21,115.52		\$0.00	\$9,067.00	\$138,075.23

Category	Percent	Amount
Labor	49.19%	\$67,922
Material	28.95%	\$39,971
Equipment	15.29%	\$21,116
Subcontractor	0.00%	\$0
Other	6.57%	\$9,067
Net Costs		\$138,075
		
Labor Mark-up	18.00%	\$12,226
Material Mark-up	15.00%	\$5,996
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$3,167
Sales tax (material)	7.75%	\$3,098
Sales tax (equipment)	7.75%	\$1,636
Material Shipping & Handling	2.50%	\$999
Worker's Travel/Subsistence	0.10%	\$68
Subtotal	_	\$165,266
Contractor General Conditions	12.00%	\$19,832
Subtotal	12.0070	\$185,097
Earthquake Insurance	0.10%	\$185
Subtotal		\$185,282
Construction Contingency	25.00%	\$46,321
Subtotal		\$231,603
Bldg Risk, Liability Auto Ins.	2.00%	\$4,632
Subtotal		\$236,235
Performance Bond	1.00%	\$2,362
Payment Bond	1.00%	\$2,362
Subtotal		\$240,960
Engineering Fee	10.00%	\$13,808
Environmental Permitting (Lump Sum)	-	\$7,000
Total Fatimata		¢064 767
Total Estimate		\$261,767



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: Jim Warford

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 03

Estimate Revision Date:: 5/24/2006

BC Project Manager:: Chris Herencia Estimate QA/QC Reviewer:: Bob Ferguson

Estimate QA/QC Date:: 11/16/2006

PROJECT LOCATION / PROCESS AREA

Project BB-2

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project E	BB-2												
04 05	NERAL REQUIREMENTS												
UI - GEI	NERAL REQUIREMENTS												
01200 -	General equipment rental												
	Trench box, 7200 lbs, 6'x 20'	23	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$116.00	\$2,668.00	\$116 / Day	\$0.00	\$0.00	\$2,668.00
	Trench Plates allowance	1	Мо	\$0.00	\$0.00	\$0.00	\$0.00	\$500.00	\$500.00	\$500 / Mo	\$0.00	\$0.00	\$500.00
									•				
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$3,168.00		\$0.00	\$0.00	\$3,168.00
02 - SIT	E CONSTRUCTION												
	Underground marking tape												
	Underground tape, detectable aluminum, 2"	17	Clf	\$2.34	\$39.78	\$3.06	\$52.02	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$91.80
02060 -	Site demolition												
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	1322	Sqyd	\$4.76	\$6,292.72	\$0.00	\$0.00	\$3.20	\$4,224.74	\$7.95 / Sqyd	\$0.00	\$0.00	\$10,517.46
	Asphalt disposal - hauling and disposal fee, 4" thick	1322	Sqyd	\$0.89	\$1,176.58	\$4.30	\$5,684.60	\$1.20	\$1,579.82	\$6.38 / Sqyd	\$0.00	\$0.00	\$8,441.00
02170 -	Saw cutting												
02110	Saw cutting, asphalt, up to 3" deep	3414	Lnft	\$0.78	\$2,662.92	\$0.15	\$512.10	\$0.40	\$1,381.64	\$1.33 / Lnft	\$0.00	\$0.00	\$4,556.66
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	3414	Lnft	\$0.46	\$1,570.44	\$0.04	\$136.56	\$0.24	\$804.88	\$0.73 / Lnft	\$0.00	\$0.00	\$2,511.88
02310 -	Fine grade												
	Fine grade, fine grade granular base for sidewalks and bikeways	125	Sqyd	\$0.96	\$120.00	\$0.00	\$0.00	\$0.16	\$20.50	\$1.12 / Sqyd	\$0.00	\$0.00	\$140.50
02220	Backfill												
02320 -	Backfill, dozer backfilling, trench, no compaction	2640	Cuyd	\$0.71	\$1,874.40	\$0.00	\$0.00	\$1.17	\$3,094.29	\$1.88 / Cuyd	\$0.00	\$0.00	\$4,968.69
	Basiani, aszer Basianing, trenen, no compassion	2040	Ouyu	ψ0.7 1	ψ1,07 1.10	ψ0.00	ψ0.00	Ψ1.17	ψ0,004.20	ψ1.007 Ouyu	ψ0.00	ψ0.00	ψ-1,000.00
02340 -	Bedding												
	Bedding, crushed stone 3/4" to 1/2"	441	Cuyd	\$7.64	\$3,369.24	\$20.73	\$9,141.93	\$1.73	\$763.27	\$30.1 / Cuyd	\$0.00	\$0.00	\$13,274.4
02360 -	Compaction	0040	01	£4.70	£4.040.40	#0.00	\$0.00	₾ 0.47	#4 000 00	#0.00 / Od	# 0.00	# 0.00	CE 074 4 4
	Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	2640 2640	Cuyd Cuyd	\$1.76 \$2.70	\$4,646.40 \$7,128.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.47 \$0.72	\$1,228.06 \$1,888.20	\$2.22 / Cuyd \$3.41 / Cuyd	\$0.00 \$0.00	\$0.00 \$0.00	\$5,874.46 \$9,016.20
	Compaction, familier tamper, or to 11, 4 mis, 2 passes	2040	Cuyu	φ2.70	φ1,120.00	φ0.00	φυ.υυ	ψ0.72	φ1,000.20	φ3.41 / Cuyu	φυ.υυ	φυ.υυ	\$9,010.20
02450 -	Excavating, trench												
	Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	3526	Cuyd	\$1.73	\$6,099.98	\$0.00	\$0.00	\$1.30	\$4,596.36	\$3.03 / Cuyd	\$0.00	\$0.00	\$10,696.34
02460 -	Hauling								•				
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	886	Cuyd	\$5.41	\$4,793.26	\$0.00	\$0.00	\$9.45		\$14.86 / Cuyd	\$0.00	\$0.00	\$13,167.92
	Loading Trucks, F.E. Loader, 3 C.Y Disposal fee	886 43	Cuyd Trk	\$0.66 \$0.00	\$584.76 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$1.13 \$0.00		\$1.79 / Cuyd \$105 / Trk	\$0.00 \$0.00	\$0.00 \$4,515.00	\$1,589.09 \$4,515.00
	Disposarilee	70	IIK	ψ0.00	ψ0.00	ψ0.00	ψ0.00	ψ0.00	ψ0.00	ψ1037 11Κ	ψ0.00	ψ+,515.00	ψ+,515.00
02490 -	Erosion control												
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
02570 -	Catch basins or manholes			00	A	04.5====	00	0.555	A.=- · ·	00.155.15	A = < <		* • • • • • • • • • • • • • • • • • • •
	Cleanout	2	Each	\$926.00	\$1,852.00 \$1,603.84	\$1,300.00	\$2,600.00	\$226.00	\$452.00	\$2452 / Each \$1005.85 / Each	\$0.00	\$0.00	\$4,904.00
	Catch bsns or manholes, curb inlet FR, grate, large 24"x36" heavy Junction Structure	3	Each Each	\$534.28 \$619.52	\$1,602.84 \$619.52	\$471.57 \$5,000.00	\$1,414.71 \$5,000.00	\$0.00 \$0.00		\$1005.85 / Each \$5619.52 / Each	\$0.00 \$0.00	\$0.00 \$0.00	\$3,017.55 \$5,619.52
	Juniculoti Ottucture	- '	Lauli	φυ 19.32	φυ19.32	φ5,000.00	φ5,000.00	φυ.υυ	φ0.00	ψ5013.52 / L'dUII	φυ.υυ	φυ.υυ	φυ,019.02
02610 -	Asphalt concrete pavement												
	Asphaltic conc pavement, pavement replacement over trench, 4"	1322	Sqyd	\$31.92	\$42,198.24	\$7.22	\$9,544.84	\$2.73	\$3,609.62	\$41.87 / Sqyd	\$0.00	\$0.00	\$55,352.70
02640 -	Lines on pav't				*								
	Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	1700	Lnft	\$0.11	\$187.00	\$0.13	\$221.00	\$0.07	\$119.00	\$0.31 / Lnft	\$0.00	\$0.00	\$527.00

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
02840 - 1	Landscaping												
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$4,878.00	\$4,878.00
02900 - 1	Pot Holing												
	Pot Holing - pipe lines	34	Each	\$222.90	\$7,578.60	\$0.00	\$0.00	\$28.21	\$959.29	\$251.11 / Each	\$0.00	\$0.00	\$8,537.89
	SITE CONSTRUCTION Total				\$94,396.68		\$34,307.76		\$34,100.64		\$0.00	\$12,007.00	\$174,812.08
15 - MEC	CHANICAL												
15090 - 1	L Pipe,drng&sewage,concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 36" dia	1700	Lnft	\$37.83	\$64,311.00	\$32.80	\$55,760.00	\$12.50	\$21,250.00	\$83.13 / Lnft	\$0.00	\$0.00	\$141,321.00
	Piping, water dist, conc pipe, gasket, 36" dia	170	Each	\$2.85	\$484.50	\$5.53	\$940.10	\$0.00	\$0.00	\$8.38 / Each	\$0.00	\$0.00	\$1,424.60
	MECHANICAL Total				\$64,795.50		\$56,700.10		\$21,250.00		\$0.00	\$0.00	\$142,745.60
	Project BB-2 Total				\$159,192.18		\$91,007.86		\$58,518.64		\$0.00	\$12,007.00	\$320,725.68
	Project DD-2 Total				ψ109,192.10		ψ51,007.00		ψ30,310.04		\$0.00	Ψ12,007.00	ψ520,725.00
	Grand Total				\$159,192.18		\$91,007.86		\$58,518.64		\$0.00	\$12,007.00	\$320,725.68

Category	Percent	Amount
Labor	49.63%	\$159,192
Material	28.38%	\$91,008
Equipment	18.25%	\$58,519
Subcontractor	0.00%	\$0
Other	3.74%	\$12,007
Net Costs		\$320,726
Labor Mark-up	18.00%	\$28,655
Material Mark-up	15.00%	\$13,651
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$8,778
Sales tax (material)	7.75%	\$7,053
Sales tax (equipment)	7.75%	\$4,535
Material Shipping & Handling	2.50%	\$2,275
Worker's Travel/Subsistence	0.10%	\$159
Subtotal		\$385,832
Contractor General Conditions	12.00%	\$46,300
Subtotal	12.0070	\$432,132
Earthquake Insurance	0.10%	\$432
Subtotal	0.1070	\$432,564
Construction Contingency	20.00%	\$86,513
Subtotal	20.0070	\$519,077
Bldg Risk, Liability Auto Ins.	2.00%	\$10,382
Subtotal		\$529,458
Performance Bond	1.00%	\$5,295
Payment Bond	1.00%	\$5,295
Subtotal		\$540,047
Engineering Fee	10.00%	\$32,073
Environmental Permitting (Lump Sum)	-	\$7,000
Total Estimate		\$579,120



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: Sharon Bray

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 4/18/2006

Estimate Revision Number:: 03

Estimate Revision Date:: 10/9/2006

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 10/16/2006

PROJECT LOCATION / PROCESS AREA

Project BCA - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project B	CA												
01 - GE	NERAL REQUIREMENTS												
	Trench box, 9500 lbs, 8'x 20'	40		\$0.00	\$0.00	\$0.00	\$0.00	\$131.75		\$131.75 / Day	\$0.00	\$0.00	\$5,270.00
	Trench Plates allowance	2	Мо	\$0.00	\$0.00	\$0.00	\$0.00	\$500.00	\$1,000.00	\$500 / Mo	\$0.00	\$0.00	\$1,000.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$6,270.00		\$0.00	\$0.00	\$6,270.00
02 - SITI	E CONSTRUCTION												
02 0.71													
02020 -	Underground marking tape												
	Underground tape, detectable aluminum, 2"	29	Clf	\$2.34	\$67.86	\$3.06	\$88.74	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$156.60
02060 -	Site demolition												
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	1806	Sqyd	\$4.76	\$8,596.56	\$0.00	\$0.00	\$3.20	\$5,771.47	\$7.95 / Sqyd	\$0.00	\$0.00	\$14,368.03
	Asphalt disposal - hauling and disposal fee, 4" thick	1806	Sqyd	\$0.89	\$1,607.34	\$4.30	\$7,765.80	\$1.20	\$2,158.21	\$6.38 / Sqyd	\$0.00	\$0.00	\$11,531.35
02170 -	Saw cutting												
02110	Saw cutting, asphalt, up to 3" deep	6600	Lnft	\$0.78	\$5,148.00	\$0.15	\$990.00	\$0.40	\$2,671.00	\$1.33 / Lnft	\$0.00	\$0.00	\$8,809.00
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	6600	Lnft	\$0.46		\$0.04	\$264.00	\$0.24		\$0.73 / Lnft	\$0.00	\$0.00	\$4,856.00
00000	D 150												
02320 -	Backfill Backfill, dozer backfilling, trench, up to 300' haul, no compaction	1173	Cuyd	\$0.71	\$832.83	\$0.00	\$0.00	\$1.17	\$1,374.85	\$1.88 / Cuyd	\$0.00	\$0.00	\$2,207.68
	basiam, as 201 basiaming, as 101101, up to 500 hadi, no compassion	1170	Ouyu	ψ0.7 1	Ψ002.00	ψ0.00	ψ0.00	Ψι.ιι	ψ1,014.00	ψ1.00 / Cuyu	ψ0.00	Ψ0.00	Ψ2,207.00
02340 -	Bedding					***							
	Bedding, crushed stone 3/4" to 1/2"	1970	Cuyd	\$7.64	\$15,050.80	\$20.73	\$40,838.10	\$1.73	\$3,409.62	\$30.1 / Cuyd	\$0.00	\$0.00	\$59,298.52
02360 -	Compaction												
	Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes	232	Cuyd	\$1.76		\$0.00	\$0.00	\$0.47		\$2.22 / Cuyd	\$0.00	\$0.00	\$516.24
	Compaction, rammer tamper, 6" to 11", 4" lifts, bedding	1691	Cuyd	\$2.70		\$0.00	\$0.00	\$0.72	* ,	\$3.41 / Cuyd	\$0.00	\$0.00	\$5,775.15
	Compaction, rammer tamper, 6" to 11", 4" lifts, backfill	1057	Cuyd	\$2.70	\$2,853.90	\$0.00	\$0.00	\$0.72	\$755.99	\$3.41 / Cuyd	\$0.00	\$0.00	\$3,609.89
02450 -	Excavating, trench												-
	Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	3075	Cuyd	\$1.56	\$4,797.00	\$0.00	\$0.00	\$1.17	\$3,608.55	\$2.73 / Cuyd	\$0.00	\$0.00	\$8,405.55
02460 -	Hauling												
02 100	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	2670	Cuyd	\$5.41	\$14,444.70	\$0.00	\$0.00	\$9.45	\$25,237.42	\$14.86 / Cuyd	\$0.00	\$0.00	\$39,682.12
	Loading Trucks, F.E. Loader, 3 C.Y	2670	Cuyd	\$0.66	\$1,762.20	\$0.00	\$0.00	\$1.13	\$3,026.60	\$1.79 / Cuyd	\$0.00	\$0.00	\$4,788.80
	Disposal fee	134	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$14,017.50	\$14,017.50
02490 -	Erosion control												
02.00	Erosion control allowance:	2	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$5,228.00	\$5,228.00
02570 -	Catch basins or manholes			***	00.004.00	04.000.00	044 700 00	#	#0.004.00	*******	00.00	00.00	
	Cleanout Catch bsns or manholes, curb inlet FR, grate, large 24"x36" heavy	9 8	Each Each	\$926.00 \$534.28	\$8,334.00 \$4,274.24	\$1,300.00 \$471.57	\$11,700.00 \$3,772.56	\$226.00 \$0.00	\$2,034.00	\$2452 / Each \$1005.85 / Each	\$0.00 \$0.00	\$0.00 \$0.00	\$22,068.00 \$8,046.80
	Junction Structure	2	Each	\$619.52		\$5,000.00	\$10,000.00	\$0.00		\$5619.52 / Each	\$0.00	\$0.00	\$11,239.04
					-	·	-						
02600 -	Base course	4000	C 1	₽0.70	¢4 040 00	#c 00	\$40.40E.00	#0.00	\$4.000.07	CO E4 / C	60.00	#0.00	¢45 404 0
	Base course, large areas, crushed 3/4" stone, compacted to 9" deep	1806	Sqyd	\$0.73	\$1,318.38	\$6.88	\$12,425.28	\$0.93	\$1,680.97	\$8.54 / Sqyd	\$0.00	\$0.00	\$15,424.63
02610 -	Asphalt concrete pavement												
	Asphaltic conc pavement, pavement replacement over trench, 4"	1806	Sqyd	\$31.92	\$57,647.52	\$7.22	\$13,039.32	\$2.73	\$4,931.14	\$41.87 / Sqyd	\$0.00	\$0.00	\$75,617.98
	Lines on pav't												

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
	Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	3300	Lnft	\$0.11	\$363.00	\$0.13	\$429.00	\$0.07	\$231.00	\$0.31 / Lnft	\$0.00	\$0.00	\$1,023.00
02840 -	- Landscaping												
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	2	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$9,756.00	\$9,756.00
	SITE CONSTRUCTION Total				\$136,347.39		\$101,312.80		\$59,764.18		\$0.00	\$29,001.50	\$326,425.87
15 - ME	CHANICAL												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 24" dia	2900	Lnft	\$22.34	\$64,786.00	\$24.00	\$69,600.00	\$2.60	\$7,540.00	\$48.94 / Lnft	\$0.00	\$0.00	\$141,926.00
	Piping, water dist, conc pipe, gasket, 24" dia	290	Each	\$2.85	\$826.50	\$3.75	\$1,087.50	\$0.00	\$0.00	\$6.6 / Each	\$0.00	\$0.00	\$1,914.00
	MECHANICAL Total				\$65,612.50		\$70,687.50		\$7,540.00		\$0.00	\$0.00	\$143,840.00
	Project BCA total				\$201,959.89		\$172,000.30		\$73,574.18		\$0.00	\$29,001.50	\$476,535.87
	Grand Total				\$201,959.89		\$172,000.30		\$73,574.18		\$0.00	\$29,001.50	\$476,535.87

Category	Percent	Amount
Labor	42.38%	\$201,960
Material	36.09%	\$172,000
Equipment	15.44%	\$73,574
Subcontractor	0.00%	\$0
Other	6.09%	\$29,002
Net Costs		\$476,536
Labar Madaga	40.000/	Ф00.050
Labor Mark-up	18.00%	\$36,353
Material Mark-up	15.00%	\$25,800
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$11,036
Sales tax (material)	7.75%	\$13,330
Sales tax (equipment)	7.75%	\$5,702
Material Shipping & Handling	2.50%	\$4,300
Worker's Travel/Subsistence	0.10%	\$202
Subtotal		\$573,259
Contractor General Conditions	12.00%	\$68,791
Subtotal	12.0070	\$642,050
Earthquake Insurance	0.10%	\$642
Subtotal	0.1070	\$642,692
Construction Contingency	20.00%	\$128,538
Subtotal	20.0070	\$771,230
Bldg Risk, Liability Auto Ins.	2.00%	\$15,425
Subtotal		\$786,655
Performance Bond	1.00%	\$7,867
Payment Bond	1.00%	\$7,867
Subtotal		\$802,388
Engineering Fee	10.00%	\$47,654
Environmental Permitting (Lump Sum)	-	\$10,000
Total Fatimete		\$050.040
Total Estimate		\$860,042



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: Jim Warford Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date::

Estimate Revision Number:: 03

Estimate Revision Date:: 5/24/2006

BC Project Manager:: Chris Herencia

Estimate QA/QC Reviewer::

Estimate QA/QC Date::

PROJECT LOCATION / PROCESS AREA

Project BCB

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project B	CB												
01 - GEN	VERAL REQUIREMENTS												
01200 - (General equipment rental												
	Trench box, 9500 lbs, 8'x 20'	12	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$131.75			\$0.00		\$1,581.00
	Trench Plates allowance	1	Мо	\$0.00	\$0.00	\$0.00	\$0.00	\$500.00		\$500 / Mo	\$0.00		\$500.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$2,081.00		\$0.00	\$0.00	\$2,081.00
02 0171	L E CONSTRUCTION												
02 - 3111	CONSTRUCTION												
02020 - 1	L Underground marking tape												
02020	Underground tape, detectable aluminum, 2"	9.25	Clf	\$2.34	\$21.65	\$3.06	\$28.31	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$49.95
	Onderground tape, detectable aluminum, 2	3.23	Oii	Ψ2.54	Ψ21.05	ψ3.00	Ψ20.51	ψ0.00	ψ0.00	ψ5.47 ΟΠ	ψ0.00	ψ0.00	ψ+3.55
02060 - 3	Site demolition												
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	620	Sqyd	\$4.76	\$2,951.20	\$0.00	\$0.00	\$3.20	\$1,981.35	\$7.95 / Sqyd	\$0.00	\$0.00	\$4,932.55
	Asphalt disposal - hauling and disposal fee, 4" thick	620	Sqyd	\$0.89	\$551.80	\$4.30	\$2,666.00	\$1.20		\$6.38 / Sqyd	\$0.00	\$0.00	\$3,958.71
	3		- 17	*	,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	*		,	,	, , , , ,	* - 7
02170 - 3	Saw cutting												
	Saw cutting, asphalt, up to 3" deep	1,859.00	Lnft	\$0.78	\$1,450.02	\$0.15	\$278.85	\$0.40	\$752.33	\$1.33 / Lnft	\$0.00	\$0.00	\$2,481.20
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	1,859.00	Lnft	\$0.46	\$855.14	\$0.04	\$74.36	\$0.24	\$438.27	\$0.73 / Lnft	\$0.00	\$0.00	\$1,367.77
02310 - 1	Fine grade												
	Fine grade under asphalt	620	Sqyd	\$0.77	\$477.40	\$0.00	\$0.00	\$0.16	\$101.69	\$0.93 / Sqyd	\$0.00	\$0.00	\$579.09
02340 - 1	Bedding												
	Bedding, crushed stone 3/4" to 1/2"	628	Cuyd	\$7.64	\$4,797.92	\$20.73	\$13,018.44	\$1.73			\$0.00	\$0.00	\$18,903.28
	Backfill, dozer backfilling, trench, no compaction	628	Cuyd	\$0.71	\$445.88	\$0.00	\$0.00	\$1.17	\$736.06	\$1.88 / Cuyd	\$0.00	\$0.00	\$1,181.94
02360 - (Compaction												
	Backfill Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2	565.3	Cuyd	\$1.76	\$994.93	\$0.00	\$0.00	\$0.47		\$2.22 / Cuyd	\$0.00	\$0.00	\$1,257.89
	Subgrade Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	94.2	Cuyd	\$1.76	\$165.79	\$0.00	\$0.00	\$0.47			\$0.00	\$0.00	\$209.61
	Bedding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	585.5	Cuyd	\$1.76	\$1,030.48	\$0.00	\$0.00	\$0.47	\$272.36	\$2.22 / Cuyd	\$0.00	\$0.00	\$1,302.84
00.450	Towns the state of												
02450 - 1	Excavating, trench	4.040.00		0.1 = 0	00.057.04	# 0.00		A. 1-	A4 5 47 00	00.70 / 0		A 0.00	*** *** ***
1	Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	1,319.00	Cuyd	\$1.56	\$2,057.64	\$0.00	\$0.00	\$1.17	\$1,547.86	\$2.73 / Cuyd	\$0.00	\$0.00	\$3,605.50
02460 - 1	Houling												
02400 - 1	Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI RT, 0.4 lds/hr	1,517.00	Cuvd	\$7.18	\$10.892.06	\$3.00	\$4.551.00	\$15.45	\$23,432.02	\$25.62 / Cuyd	\$0.00	\$0.00	\$38,875.08
	Loading Trucks, F.E. Loader, 3 C.Y	1,517.00	Cuyd	\$0.66	\$1,001.22	\$0.00	\$0.00	\$1.13	+ -,		\$0.00	\$0.00	\$2,720.83
	Disposal fee	76	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	. ,		\$0.00		\$7,964.25
	Disposarios	7.0	1110	ψ0.00	ψ0.00	ψ0.00	ψ0.00	Ψ0.00	ψ0.00	ψ1007 TIK	ψ0.00	ψ1,504.20	ψ1,004.20
02490 - 1	Erosion control												
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
				•	,	, , , , , ,			*		***	* /*	, ,-
02570 - (Catch basins or manholes												
	Catch basins or manholes, concrete, precast, 5' I.D., 8' deep	4	Each	\$618.40	\$2,473.60	\$863.60	\$3,454.40	\$150.50	\$602.00	\$1632.5 / Each	\$0.00	\$0.00	\$6,530.00
	Cleanout	3	Each	\$926.00	\$2,778.00	\$1,300.00	\$3,900.00	\$226.00	\$678.00	\$2452 / Each	\$0.00	\$0.00	\$7,356.00
	CB or manholes, conc, slab tops, precast, 8" thick, 5' dia	4	Each	\$143.28	\$573.12	\$312.49	\$1,249.96	\$32.50	\$130.00	\$488.27 / Each	\$0.00	\$0.00	\$1,953.08
	Catch bsns or manholes, frs and covs, hvy traffic, 24" diam, 400 lb.	4	Each	\$146.95	\$587.80	\$179.54	\$718.16	\$50.00	\$200.00	\$376.49 / Each	\$0.00	\$0.00	\$1,505.96
	CB or manholes, inverts, single channel brick, concrete	4	Each	\$132.85	\$531.40	\$61.00	\$244.00	\$0.00	\$0.00	\$193.85 / Each	\$0.00	\$0.00	\$775.40
	CB/manholes, steps, heavyweight cast iron, 12" x 10-1/2", for all con	16	Each	\$6.62	\$105.92	\$14.77	\$236.32	\$0.00	\$0.00	\$21.39 / Each	\$0.00	\$0.00	\$342.24
02610 - 7	Asphalt concrete pavement												
	Asphaltic conc pavement, pavement replacement over trench, 4"	620	Sqyd	\$31.92	\$19,790.40	\$7.22	\$4,476.40	\$2.73	\$1,692.86	\$41.87 / Sqyd	\$0.00	\$0.00	\$25,959.66

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
02640 - L	Lines on pav't												
	Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	925	Lnft	\$0.11	\$101.75	\$0.13	\$120.25	\$0.07	\$64.75	\$0.31 / Lnft	\$0.00	\$0.00	\$286.75
02840 - L	Landscaping												
	Landscaping Allowance	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5000 / Lsum		\$0.00	\$5,000.00
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$4,878.00	\$4,878.00
02900 - F	Pot Holing												
	Pot Holing - pipe lines: 2 per 100'	18	Each	\$222.90	\$4,012.20	\$0.00	\$0.00	\$25.22	\$453.96	\$248.12 / Each	\$0.00	\$0.00	\$4,466.16
	SITE CONSTRUCTION Total				\$58,647.32		\$35,016.45		\$36,937.74		\$5,000.00	\$15,456.25	\$151,057.75
03 - CON	ICRETE												
02220 - I	Patching concrete												
	Patching conc, wall, wall penetration, non-shrink grout, 30" hole	8	Each	\$68.53	\$548.24	\$238.50	\$1,908.00	\$0.00	\$0.00	\$307.03 / Each	\$0.00	\$0.00	\$2,456.24
	CONCRETE Total		Luon	Ψ00.00	\$548.24	Ψ200.00	\$1,908.00	ψ0.00	\$0.00	ψοστ.σστ Εασπ	\$0.00	\$0.00	\$2,456.24
15 - MEC	CHANICAL												
15090 - F	Pipe,drng&sewage,concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 30" dia	925	Lnft	\$30.95	\$28,628.75	\$22.96	\$21,238.00	\$10.27	\$9,499.75	\$64.18 / Lnft	\$0.00	\$0.00	\$59,366.50
	Piping, water dist, conc pipe, gasket, 30" dia	92	Each	\$2.85	\$262.20	\$5.53	\$508.76	\$0.00	\$0.00	\$8.38 / Each	\$0.00	\$0.00	\$770.96
	MECHANICAL Total				\$28,890.95		\$21,746.76		\$9,499.75		\$0.00	\$0.00	\$60,137.46
	Project BCB Total				\$88,086.51		\$58,671.21		\$48,518.49		\$5,000.00	\$15,456.25	\$215,732.45
	Grand Total				\$88,086.51		\$58,671.21		\$48,518.49		\$5,000.00	\$15,456.25	\$215,732.45

Category	Percent	Amount
Labor	40.83%	\$88,087
Material	27.20%	\$58,671
Equipment	22.49%	\$48,518
Subcontractor	2.32%	\$5,000
Other	7.16%	\$15,456
Net Costs		\$215,732
Labor Mark	40.000/	#45.050
Labor Mark-up	18.00%	\$15,856
Material Mark-up	15.00%	\$8,801
Subcontractor Mark-up	5.00%	\$250
Equipment Mark-up	15.00%	\$7,278
Sales tax (material)	7.75%	\$4,547
Sales tax (equipment)	7.75%	\$3,760
Material Shipping & Handling	2.50%	\$1,467
Worker's Travel/Subsistence	0.10%	\$88
Subtotal		\$257,779
Contractor General Conditions	12.00%	\$30,933
Subtotal	12.0070	\$288,712
Earthquake Insurance	0.10%	\$289
Subtotal		\$289,001
Construction Contingency	20.00%	\$57,800
Subtotal		\$346,801
Bldg Risk, Liability Auto Ins.	2.00%	\$6,936
Subtotal		\$353,737
Performance Bond	1.00%	\$3,537
Payment Bond	1.00%	\$3,537
Subtotal		\$360,812
Engineering Fee	10.00%	\$21,573
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		¢202.20E
i ulai Estiiiiale		\$392,385



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: Jim Warford

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 03

Estimate Revision Date:: 10/9/2006

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 10/16/2006

PROJECT LOCATION / PROCESS AREA

Project BCC - Located in Basin B

	26		Unit	\$/Unit	Labor Amount	\$/Unit	Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
													<u> </u>
01200 - 6	ERAL REQUIREMENTS												
	Seneral equipment rental												
	Trench box, 9500 lbs, 8'x 20'	12	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$131.75	\$1,581.00	\$131.75 / Day	\$0.00	\$0.00	\$1,581.00
	Trench Plates allowance	1	Mo	\$0.00	\$0.00	\$0.00	\$0.00	\$500.00	\$500.00	\$500 / Mo	\$0.00	\$0.00	\$500.00
	GENERAL REQUIREMENTS Total			*	\$0.00	• • • • • • • • • • • • • • • • • • • •	\$0.00	,	\$2,081.00	• • • • • • • • • • • • • • • • • • • •	\$0.00	\$0.00	\$2,081.00
02 - SITE	CONSTRUCTION												
02020 - U	Inderground marking tape												
	Underground tape, detectable aluminum, 2"	9.25	Clf	\$2.34	\$21.65	\$3.06	\$28.31	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$49.95
02060 - S	tite demolition												
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	620	Sqyd	\$4.76	\$2,951.20	\$0.00	\$0.00	\$3.20	\$1,981.35	\$7.95 / Sqyd	\$0.00	\$0.00	\$4,932.55
	Asphalt disposal - hauling and disposal fee, 4" thick	620	Sqyd	\$0.89	\$551.80	\$4.30	\$2,666.00	\$1.20	\$740.91	\$6.38 / Sqyd	\$0.00	\$0.00	\$3,958.71
02170 - S	aw cutting												
	Saw cutting, asphalt, up to 3" deep	1,859.0	Lnft	\$0.78	\$1,450.02	\$0.15	\$278.85	\$0.40	\$752.33	\$1.33 / Lnft	\$0.00	\$0.00	\$2,481.20
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	1,859.00	Lnft	\$0.46	\$855.14	\$0.04	\$74.36	\$0.24	\$438.27	\$0.73 / Lnft	\$0.00	\$0.00	\$1,367.77
02310 - F	ine grade												
	Fine grade under asphalt	620	Sqyd	\$0.77	\$477.40	\$0.00	\$0.00	\$0.16	\$101.69	\$0.93 / Sqyd	\$0.00	\$0.00	\$579.09
02340 - B	Redding												
	Bedding, crushed stone 3/4" to 1/2"	911.4	Cuyd	\$7.64	\$6,963.10	\$20.73	\$18,893.32	\$1.73	\$1,577.42	\$30.1 / Cuyd	\$0.00	\$0.00	\$27,433.84
	Backfill, dozer backfilling, trench, no compaction	1463	Cuyd	\$0.71	\$1,038.73	\$0.00	\$0.00	\$1.17	\$1,714.75	\$1.88 / Cuyd	\$0.00	\$0.00	\$2,753.48
02360 - C	Compaction												
	Backfill Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2	668.1	Cuyd	\$1.76	\$1,175.86	\$0.00	\$0.00	\$0.47	\$310.78	\$2.22 / Cuyd	\$0.00	\$0.00	\$1,486.64
	Subgrade Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	111.3	Cuyd	\$1.76	\$195.89	\$0.00	\$0.00	\$0.47	\$51.77	\$2.22 / Cuyd	\$0.00	\$0.00	\$247.66
	Bedding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	783.8	Cuyd	\$1.76	\$1,379.49	\$0.00	\$0.00	\$0.47	\$364.60	\$2.22 / Cuyd	\$0.00	\$0.00	\$1,744.09
02450 - E	xcavating, trench												
	Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	1900	Cuyd	\$1.56	\$2,964.00	\$0.00	\$0.00	\$1.17	\$2,229.67	\$2.73 / Cuyd	\$0.00	\$0.00	\$5,193.67
02460 - H	lauling												
	Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI RT, 0.4 lds/hr	627	Cuyd	\$7.18	\$4,501.86	\$3.00	\$1,881.00	\$15.45	\$9,684.82	\$25.62 / Cuyd	\$0.00	\$0.00	\$16,067.68
	Loading Trucks, F.E. Loader, 3 C.Y	627	Cuyd	\$0.66	\$413.82	\$0.00	\$0.00	\$1.13	\$710.74	\$1.79 / Cuyd	\$0.00	\$0.00	\$1,124.56
	Disposal fee	31	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$3,291.75	\$3,291.75
02490 - E	rosion control												
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
02570 - 0	Satch basins or manholes												
	Catch basins or manholes, concrete, precast, 5' I.D., 8' deep	4	Each	\$618.40	\$2,473.60	\$863.60	\$3,454.40	\$150.50	\$602.00	\$1632.5 / Each	\$0.00	\$0.00	\$6,530.00
	Cleanout	3	Each	\$926.00	\$2,778.00	\$1,300.00	\$3,900.00	\$226.00	\$678.00	\$2452 / Each	\$0.00	\$0.00	\$7,356.00
	CB or manholes, conc, slab tops, precast, 8" thick, 5' dia	4	Each	\$143.28	\$573.12	\$312.49	\$1,249.96	\$32.50	\$130.00		\$0.00	\$0.00	\$1,953.08
	Catch bsns or manholes, frs and covs, hvy traffic, 24" diam, 400 lb.	4	Each	\$146.95	\$587.80	\$179.54	\$718.16	\$50.00	\$200.00		\$0.00	\$0.00	\$1,505.96
	CB or manholes, inverts, single channel brick, concrete	4	Each	\$132.85	\$531.40	\$61.00	\$244.00	\$0.00	\$0.00		\$0.00	\$0.00	\$775.40
	CB/manholes, steps, heavyweight cast iron, 12" x 10-1/2", for all con	16	Each	\$6.62	\$105.92	\$14.77	\$236.32	\$0.00	\$0.00	\$21.39 / Each	\$0.00	\$0.00	\$342.24
	sphalt concrete pavement												
	Asphaltic conc pavement, pavement replacement over trench, 4"	620	Sqyd	\$31.92	\$19,790.40	\$7.22	\$4,476.40	\$2.73	\$1,692.86	\$41.87 / Sqyd	\$0.00	\$0.00	\$25,959.66
02640 - L	ines on pav't												

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
	Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	925	Lnft	\$0.11	\$101.75	\$0.13	\$120.25	\$0.07	\$64.75	\$0.31 / Lnft	\$0.00	\$0.00	\$286.75
02840 - L	l Landscaping												-
	Landscaping Allowance	1	Lsum	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$5000 / Lsum	\$5,000.00	\$0.00	\$5,000.00
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$4,878.00	\$4,878.00
02900 - I	l Pot Holing												-
	Pot Holing - pipe lines: 2 per 100'	18	Each	\$222.90	\$4,012.20	\$0.00	\$0.00	\$25.22	\$453.96	\$248.12 / Each	\$0.00	\$0.00	\$4,466.16
	SITE CONSTRUCTION Total				\$55,894.13		\$38,221.33		\$24,480.69		\$5,000.00	\$10,783.75	\$134,379.90
03 - CON	NCRETE												
03330 - I	l Patching concrete												
	Patching conc, wall, wall penetration, non-shrink grout,	8	Each	\$68.53	\$548.24	\$238.50	\$1,908.00	\$0.00	\$0.00	\$307.03 / Each	\$0.00	\$0.00	\$2,456.24
	CONCRETE Total				\$548.24		\$1,908.00		\$0.00		\$0.00	\$0.00	\$2,456.24
15 - MEC	CHANICAL												
15090 - I	 Pipe,drng&sewage,concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 36" dia	925	Lnft	\$37.83	\$34,992.75	\$32.80	\$30,340.00	\$12.50	\$11,562.50	\$83.13 / Lnft	\$0.00	\$0.00	\$76,895.25
	Piping, water dist, conc pipe, gasket, 36" dia	92	Each	\$2.85	\$262.20	\$5.53	\$508.76	\$0.00	\$0.00	\$8.38 / Each	\$0.00	\$0.00	\$770.96
	MECHANICAL Total				\$35,254.95		\$30,848.76		\$11,562.50		\$0.00	\$0.00	\$77,666.21
	Project BCC Total				\$91,697.32		\$70,978.09		\$38,124.19		\$5,000.00	\$10,783.75	\$216,583.35
	Grand Total				\$91,697.32		\$70,978.09		\$38,124.19		\$5,000.00	\$10,783.75	\$216,583.35

Category	Percent	Amount
Labor	42.34%	\$91,697
Material	32.77%	\$70,978
Equipment	17.60%	\$38,124
Subcontractor	2.31%	\$5,000
Other	4.98%	\$10,784
Net Costs		\$216,583
Labor Mark-up	18.00%	\$16,506
Material Mark-up	15.00%	\$10,647
Subcontractor Mark-up	5.00%	\$250
Equipment Mark-up	15.00%	\$5,719
Sales tax (material)	7.75%	\$5,501
Sales tax (equipment)	7.75%	\$2,955
Material Shipping & Handling	2.50%	\$1,774
Worker's Travel/Subsistence	0.10%	\$92
Subtotal		\$260,026
Contractor General Conditions	12.00%	\$31,203
Subtotal	12.0070	\$291,229
Earthquake Insurance	0.10%	\$291
Subtotal		\$291,520
Construction Contingency	20.00%	\$58,304
Subtotal		\$349,824
Bldg Risk, Liability Auto Ins.	2.00%	\$6,996
Subtotal		\$356,821
Performance Bond	1.00%	\$3,568
Payment Bond	1.00%	\$3,568
Subtotal		\$363,957
Engineering Fee	10.00%	\$21,658
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		¢205 645
Total Estimate		\$395,615



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: Jim Warford Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 03

Estimate Revision Date:: 10/9/2006

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 10/16/2006

PROJECT LOCATION / PROCESS AREA

Project BFA - Located in Basin B

Item	Item Description C	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project E	BFA												
	NEDAL DEGLIDENSITO												
)1 - GEI	NERAL REQUIREMENTS												
01200 -	General equipment rental												
	Trench box, 9500 lbs, 8'x 20'	20	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$131.75	\$2,635.00	\$131.75 / Day	\$0.00	\$0.00	\$2,635.0
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$2,635.00		\$0.00	\$0.00	\$2,635.00
02020 -	Underground marking tape												-
	Underground tape, detectable aluminum, 2"	16	Clf	\$2.34	\$37.44	\$3.06	\$48.96	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$86.4
റാററ	Site demolition												
J2000 -	Site demonstration Site dml, no hauling, pavement removal, bit, 4" to 6" thick	1072	Sqyd	\$4.76	\$5,102.72	\$0.00	\$0.00	\$3.20	\$3,425.81	\$7.95 / Sqyd	\$0.00	\$0.00	\$8,528.5
	Asphalt disposal - hauling and disposal fee, 4" thick	1072	Sqyd	\$0.89	\$954.08	\$4.30	\$4,609.60	\$1.20		\$6.38 / Sqyd	\$0.00	\$0.00	\$6,844.7
			1,7			·	. ,						
00470	On the state of th												
02170 -	Saw cutting Saw cutting, asphalt, up to 3" deep	3214	Lnft	\$0.78	\$2,506.92	\$0.15	\$482.10	\$0.40	\$1,300.70	\$1.33 / Lnft	\$0.00	\$0.00	\$4,289.7
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	3214	Lnft	\$0.76	\$1,478.44	\$0.13	\$128.56	\$0.40		\$0.73 / Lilit	\$0.00	\$0.00	\$2,364.7
	can canny, admin, and a doop, cach add mon or dopin	0211	2	ψοο	\$1,110.11	ψο.σ.	ψ120.00	Ψ0.2.	\$101112	ψοο / Line	φοισσ	φοιοσ	Ψ2,00
02310 -	Fine grade												
	Fine grade under asphalt	1072	Sqyd	\$0.77	\$825.44	\$0.00	\$0.00	\$0.16	\$175.82	\$0.93 / Sqyd	\$0.00	\$0.00	\$1,001.2
02340 -	Bedding												
	Bedding, crushed stone 3/4" to 1/2"	1577	Cuyd	\$7.64	\$12,048.28	\$20.73	\$32,691.21	\$1.73	\$2,729.42	\$30.1 / Cuyd	\$0.00	\$0.00	\$47,468.9
	Backfill, dozer backfilling, trench, no compaction	2373	Cuyd	\$0.71	\$1,684.93	\$0.00	\$0.00	\$1.17	\$2,781.51	\$1.88 / Cuyd	\$0.00	\$0.00	\$4,466.4
02360 -	Compaction Backfill Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2	2373	Cuyd	\$1.76	\$4,176.73	\$0.00	\$0.00	\$0.47	\$1,103.92	\$2.22 / Cuyd	\$0.00	\$0.00	\$5,280.6
	Subgrade Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	193	Cuyd	\$1.76		\$0.00	\$0.00	\$0.47	\$89.59	\$2.22 / Cuyd	\$0.00	\$0.00	\$428.5
	Bedding Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	1356	Cuyd	\$1.76	\$2,386.56	\$0.00	\$0.00	\$0.47		\$2.22 / Cuyd	\$0.00	\$0.00	\$3,017.3
02450 -	Excavating, trench	0000	0 1	04.50	A4 007 00	# 0.00	00.00	0.4.4	#0.040.70	00 70 / O	00.00	00.00	
	Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	3082	Cuyd	\$1.56	\$4,807.92	\$0.00	\$0.00	\$1.17	\$3,616.76	\$2.73 / Cuyd	\$0.00	\$0.00	\$8,424.6
02460 -	Hauling												
	Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI RT, 0.4 lds/hr	1017	Cuyd	\$7.18	\$7,302.49	\$3.00	\$3,051.18	\$15.45	\$15,709.80	\$25.62 / Cuyd	\$0.00	\$0.00	\$26,063.4
	Loading Trucks, F.E. Loader, 3 C.Y	1017	Cuyd	\$0.66	\$671.26	\$0.00	\$0.00	\$1.13		\$1.79 / Cuyd	\$0.00	\$0.00	\$1,824.1
	Disposal fee	51	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$5,339.57	\$5,339.5
02490 -	Erosion control												
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.0
02570 -	Catch basins or manholes Catch basins or manholes, concrete, precast, 5' I.D., 8' deep		Each	\$618.40	\$5,565.60	\$863.60	\$7,772.40	\$150.50	¢4 254 50	\$1632.5 / Each	\$0.00	\$0.00	\$14,692.5
	Cleanout	9	Each	\$926.00	\$4,630.00	\$1,300.00	\$7,772.40 \$6,500.00	\$150.50			\$0.00	\$0.00	\$14,692.5
	CB or manholes, conc, slab tops, precast, 8" thick, 5' dia	9	Each	\$143.28	\$1,289.52	\$312.49	\$2,812.41	\$32.50	\$292.50		\$0.00	\$0.00	\$4,394.4
	Catch bsns or manholes, frs and covs, hvy traffic, 24" diam, 400 lb.	9	Each	\$146.95	\$1,322.55	\$179.54	\$1,615.86	\$50.00	\$450.00	\$376.49 / Each	\$0.00	\$0.00	\$3,388.4
	CB or manholes, inverts, single channel brick, concrete	9	Each	\$132.85	\$1,195.65	\$61.00	\$549.00	\$0.00	\$0.00		\$0.00	\$0.00	\$1,744.6
	CB/manholes, steps, heavyweight cast iron, 12" x 10-1/2", for all con	45	Each	\$6.62	\$297.90	\$14.77	\$664.65	\$0.00	\$0.00	\$21.39 / Each	\$0.00	\$0.00	\$962.5
02580 -	Headwall												
	Headwall, conc, CIP, 30< skewed wingwall,	2	Each	\$4,982.10	\$9,964.20	\$1,818.11	\$3,636.22	\$125.00	\$250.00	\$6925.21 / Each	\$0.00	\$0.00	\$13,850.4

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
02610 - /	Asphalt concrete pavement												
	Asphaltic conc pavement, pavement replacement over trench, 4"	1072	Sqyd	\$31.92	\$34,218.24	\$7.22	\$7,739.84	\$2.73	\$2,927.01	\$41.87 / Sqyd	\$0.00	\$0.00	\$44,885.09
02640 - 1	Lines on pay t												
02040 - 1	Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	1600	Lnft	\$0.11	\$176.00	\$0.13	\$208.00	\$0.07	\$112.00	\$0.31 / Lnft	\$0.00	\$0.00	\$496.00
02840 - 1	Landscaping												
	Landscaping Allowance	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5000 / Lsum	\$5,000.00	\$0.00	\$5,000.00
02900 - 1	 Pot Holing												
	Pot Holing - pipe lines: 2 per 100'	32	Each	\$222.90	\$7,132.80	\$0.00	\$0.00	\$25.22	\$807.04	\$248.12 / Each	\$0.00	\$0.00	\$7,939.84
	SITE CONSTRUCTION Total				\$110,114.64		\$72,509.99		\$42,078.84		\$5,000.00	\$7,953.57	\$237,657.04
03 - COI	NCRETE												
03330 - 1	Patching concrete												
	Pre-cast concrete wall penetration, non-shrink grout, 42" hole	18	Each	\$72.00	\$1,296.00	\$200.00	\$3,600.00	\$0.00	\$0.00	\$272 / Each	\$0.00	\$0.00	\$4,896.00
	CONCRETE Total				\$1,296.00		\$3,600.00		\$0.00		\$0.00	\$0.00	\$4,896.00
15 - MEC	 CHANICAL												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 42" dia	1600	Lnft	\$42.56	\$68,096.00	\$44.51	\$71,216.00	\$20.21	\$32,336.00	\$107.28 / Lnft	\$0.00	\$0.00	\$171,648.00
	Piping, water dist, conc pipe, gasket, 42" dia	160	Each	\$2.85	\$456.00	\$7.68	\$1,228.80	\$0.00	\$0.00	\$10.53 / Each	\$0.00	\$0.00	\$1,684.80
	MECHANICAL Total				\$68,552.00		\$72,444.80		\$32,336.00		\$0.00	\$0.00	\$173,332.80
	Project BFA Total				\$179,962.64		\$148,554.79		\$77,049.84		\$5,000.00	\$7,953.57	\$418,520.84
	Grand Total				\$179,962.64		\$148,554.79		\$77,049.84		\$5,000.00	\$7,953.57	\$418,520.84

Percent	Amount
43.00%	\$179,963
35.50%	\$148,555
18.41%	\$77,050
1.19%	\$5,000
1.90%	\$7,954
	\$418,521
	\$32,393
	\$22,283
	\$250
15.00%	\$11,557
7.75%	\$11,513
7.75%	\$5,971
2.50%	\$3,714
0.10%	\$180
	\$506,383
12 00%	\$60,766
	\$567,149
0.10%	\$567
	\$567,716
20.00%	\$113,543
	\$681,259
2.00%	\$13,625
	\$694,885
1.00%	\$6,949
1.00%	\$6,949
	\$708,782
10.00%	\$41,852
-	\$10,000
	\$760,634
	43.00% 35.50% 18.41% 1.19% 1.90% 1.90% 18.00% 5.00% 5.00% 7.75% 7.75% 2.50% 0.10% 12.00% 20.00% 1.00% 1.00%



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: Sharon Bray Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 5/12/2006

Estimate Revision Number:: 03

Estimate Revision Date:: 10/9/2006

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Bob Ferguson
Estimate QA/QC Date:: 10/16/2006

PROJECT LOCATION / PROCESS AREA

Project BFB-U - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project B													
02 - SITE	CONSTRUCTION												
02060 - 3	Site demolition												
	Site demo, Area vegetation removal	1	Acre	\$1,598.62	\$1,822.43	\$0.00	\$0.00	\$3,356.14	\$3,826.00	\$4954.76 / Acre	\$0.00	\$0.00	\$5,648.43
02220	Backfill. structural												
02330 - 1	Backfill, side slope fill	515	Cuyd	\$0.52	\$267.80	\$0.00	\$0.00	\$1.20	\$619.00	\$1.72 / Cuyd	\$0.00	\$0.00	\$886.80
	Backiii, side slope iiii	313	Cuyu	Ψ0.52	Ψ201.00	φ0.00	φ0.00	ψ1.20	\$019.00	\$1.72 / Cuyu	\$0.00	φυ.υυ	φου.ου
02360 - (Compaction												
	Compaction, riding, vibrating roller, 6" lifts, side slope fill	515	Cuyd	\$2.70	\$1,390.50	\$0.00	\$0.00	\$0.72	\$368.34	\$3.41 / Cuyd	\$0.00	\$0.00	\$1,758.84
02390 - 1	Excavating, bulk bank measure												
	Excavating, bulk bank measure, FE loader, whl mtd, 1.5 CY cap = 80	1864	Cuyd	\$1.00	\$1,864.00	\$0.00	\$0.00	\$0.64	\$1,188.00	\$1.63 / Cuyd	\$0.00	\$0.00	\$3,052.00
02430 - 1													
	Fill, spread fill, with dozer	515	Cuyd	\$1.07	\$551.05	\$0.00	\$0.00	\$2.46	\$1,264.36	\$3.52 / Cuyd	\$0.00	\$0.00	\$1,815.41
02460 - 1	Hauling	-											
02400 - 1	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	1348	Cuyd	\$5.41	\$7,292.68	\$0.00	\$0.00	\$9.45	\$12,741.59	\$14.86 / Cuyd	\$0.00	\$0.00	\$20,034.27
	Loading Trucks, F.E. Loader, 3 C.Y	1348	Cuvd	\$0.66	\$889.68		\$0.00					\$0.00	\$2,417.72
	Eddaing Tradito, F.E. Eddadi, & C.T	1040	Ouyu	ψ0.00	φοσο.σσ	ψ0.00	ψ0.00	ψ1.10	Ψ1,020.04	ψ1.707 Gdyd	ψ0.00	ψ0.00	Ψ2,+17.72
02480 - 1	Rip-rap												
	Rip-rap, gabions, galv steel mesh boxes, stone filled	100	Cuyd	\$85.11	\$8,511.00	\$42.49	\$4,249.00	\$24.55	\$2,455.00	\$152.15 / Cuyd	\$0.00	\$0.00	\$15,215.00
02490 - 1	Erosion control		ļ										
	Erosion control, polypropylene mesh, stapled, 6.5 oz./s.y	3299	Sqyd	\$0.44	\$1,451.56	\$1.10	\$3,628.90	\$0.00	\$0.00	\$1.54 / Sqyd	\$0.00	\$0.00	\$5,080.46
00000													
02600 - 1	Base course	667	0	\$0.80	\$533.60	\$9.15	\$6,103.05	\$0.90	\$600.00	\$10.84 / Sqyd	\$0.00	\$0.00	\$7,236.65
	Base course, roadway, compacted to 12" deep	667	Sqyd	\$0.80	\$533.60	\$9.15	\$6,103.05	\$0.90	\$600.00	\$10.84 / Sqya	\$0.00	\$0.00	\$7,236.65
	SITE CONSTRUCTION Total				\$24,574.30		\$13,980.95		\$24,590.33		\$0.00	\$0.00	\$63,145.58
03 - COI	NCRETE				φ2-1,07-1.00		φ10,300.30		Ψ24,000.00		ψ0.00	φ0.00	ψυυ, 140.00
	Project BFB-U-Total				\$24,574.30		\$13,980.95		\$24,590.33		\$0.00	\$0.00	\$63,145.58
					·		,		ĺ				
	Grand Total				\$24,574.30		\$13,980.95		\$24,590.33		\$0.00	\$0.00	\$63,145.58

Category	Percent	Amount
Labor	38.92%	\$24,574
Material	22.14%	\$13,981
Equipment	38.94%	\$24,590
Subcontractor	0.00%	\$0
Other	0.00%	\$0
Net Costs		\$63,146
Labor Mark-up	18.00%	\$4,423
Material Mark-up	15.00%	\$2,097
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$3,689
Sales tax (material)	7.75%	\$1,084
Sales tax (equipment)	7.75%	\$1,906
Material Shipping & Handling	2.50%	\$350
Worker's Travel/Subsistence	0.10%	\$25
Subtotal		\$76,718
Contractor General Conditions	12.00%	\$9,206
Subtotal		\$85,924
Earthquake Insurance	0.10%	\$86
Subtotal		\$86,010
Construction Contingency	25.00%	\$21,503
Subtotal		\$107,513
Bldg Risk, Liability Auto Ins.	2.00%	\$2,150
Subtotal		\$109,663
Performance Bond	1.00%	\$1,097
Payment Bond	1.00%	\$1,097
Subtotal		\$111,856
Engineering Fee	10.00%	\$6,315
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$128,171



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: Sharon Bray

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 5/12/2006

Estimate Revision Number:: 03

Estimate Revision Date:: 10/9/2006

BC Project Manager:: Chris Herencia Estimate QA/QC Reviewer:: Bob Ferguson

Estimate QA/QC Date:: 10/16/2009

PROJECT LOCATION / PROCESS AREA

Project BFB-L - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project E	BFB-L												
01 - GEI	NERAL REQUIREMENTS												
OT - OLI	VELVAL I LE QUI LE WEI VI O												
01200 -	General equipment rental												
	Trench box, 9500 lbs, 8'x 20'	12	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$131.75	\$1,581.00	\$131.75 / Day	\$0.00	\$0.00	\$1,581.00
									•				
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$1,581.00		\$0.00	\$0.00	\$1,581.00
02 - SIT	E CONSTRUCTION												
02 0111													
02020 -	Underground marking tape												
	Underground tape, detectable aluminum, 2"	8	Clf	\$2.34	\$18.72	\$3.06	\$24.48	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$43.20
02320 -	Backfill Backfill, dozer backfilling, trench, up to 300' haul, no compaction	1017	Cuyd	\$0.71	\$722.07	\$0.00	\$0.00	\$1.17	\$1,192.00	\$1.88 / Cuyd	\$0.00	\$0.00	\$1,914.07
	Backilli, dozel backilling, trench, up to 300 flaui, no compaction	1017	Cuyu	φU./ I	\$122.01	\$0.00	φυ.υυ	φ1.17	\$1,192.00	\$1.66 / Cuyu	\$0.00	\$0.00	\$1,914.07
02340 -	Bedding												
	Bedding, crushed stone 3/4" to 1/2"	894	Cuyd	\$7.64	\$6,830.16	\$20.73	\$18,532.62	\$1.73	\$1,547.31	\$30.1 / Cuyd	\$0.00	\$0.00	\$26,910.09
02360 -	Compaction												
	Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes Compaction, rammer tamper, 6" to 11", 4" lifts, bedding	104 769	Cuyd Cuyd	\$1.76 \$2.70	\$183.04 \$2,076.30	\$0.00 \$0.00	\$0.00 \$0.00	\$0.47 \$0.72		\$2.22 / Cuyd \$3.41 / Cuyd	\$0.00 \$0.00	\$0.00 \$0.00	\$231.42 \$2,626.31
	Compaction, rammer tamper, 6 to 11 , 4 lifts, bedding Compaction, rammer tamper, 6" to 11", 4" lifts, backfill	916	Cuyd	\$2.70	\$2,473.20	\$0.00	\$0.00	\$0.72		\$3.41 / Cuyd	\$0.00	\$0.00	\$3,128.35
	Compaction, familier tamper, or to 11, 4 mits, backing	310	Ouyu	Ψ2.70	Ψ2,410.20	ψ0.00	ψ0.00	Ψ0.72	ψ000.10	ψ3.41 / Ouyu	Ψ0.00	ψ0.00	ψ5,120.50
02450 -	Excavating, trench												
	Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	2056	Cuyd	\$1.56	\$3,207.36	\$0.00	\$0.00	\$1.17	\$2,412.74	\$2.73 / Cuyd	\$0.00	\$0.00	\$5,620.10
02460 -	Hauling	4550	01	\$5.41	\$8,401,73	\$0.00	\$0.00	\$9.45	\$14.679.29	\$14.86 / Cuyd	\$0.00	\$0.00	\$23.081.02
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr Loading Trucks, F.E. Loader, 3 C.Y	1553 1553	Cuyd Cuyd	\$5.41 \$0.66		\$0.00	\$0.00	\$9.45 \$1.13			\$0.00	\$0.00	\$23,081.02
	Loading Trucks, F.L. Loader, 5 C.T	1333	Cuyu	φυ.υυ	\$1,024.90	φ0.00	φυ.υυ	ψ1.13	\$1,700.42	\$1.797 Cuyu	\$0.00	φ0.00	φ2,703.40
02490 -	Erosion control												
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
02570 -	Catch basins or manholes	4	F	#040.50	#040.50	# F 000 00	# F 000 00	#0.00	#0.00	\$5040.50 / F	#0.00	#0.00	ΦE 040 E0
	Junction structure Catch basins or manholes, concrete, precast, 5' I.D., 8' deep	1	Each Each	\$619.52 \$618.40	\$619.52 \$1,855.20	\$5,000.00 \$863.60	\$5,000.00 \$2,590.80	\$0.00 \$150.50		\$5619.52 / Each \$1632.5 / Each	\$0.00 \$0.00	\$0.00 \$0.00	\$5,619.52 \$4.897.50
	CB or manholes, conc, slab tops, precast, 8" thick, 5' dia	3	Each	\$143.28	\$429.84	\$312.49	\$937.47	\$32.50		\$488.27 / Each	\$0.00	\$0.00	\$1,464.8
	Catch bsns or manholes, frs and covs, hvy traffic, 24" diam, 400 lb.	3	Each	\$146.95	\$440.85	\$179.54	\$538.62	\$50.00		\$376.49 / Each	\$0.00	\$0.00	\$1,129.47
	CB or manholes, inverts, single channel brick, concrete	3	Each	\$132.85	\$398.55	\$61.00	\$183.00	\$0.00	\$0.00	\$193.85 / Each	\$0.00	\$0.00	\$581.55
	CB/manholes, steps, heavyweight cast iron, 12" x 10-1/2", for all con	13	Each	\$6.62	\$86.06	\$14.77	\$192.01	\$0.00	\$0.00	\$21.39 / Each	\$0.00	\$0.00	\$278.07
00500	Line de la line												
02580 -	Headwall Headwall, conc, CIP, 30< skewed wingwall	4	Each	\$6,148.42	\$6,148.42	\$1,818.11	\$1,818.11	\$144.00	\$144.00	\$8110.53 / Each	\$0.00	\$0.00	\$8,110.53
	neadwaii, conc, CIP, 30< skewed wingwaii	1	Each	\$6,148.42	\$6,146.42	\$1,010.11	\$1,010.11	\$144.00	\$144.00	\$6110.53 / Each	\$0.00	\$0.00	\$6,110.53
02900 -	Pot Holing												
	Pot Holing - pipe lines	16	Each	\$222.90	\$3,566.40	\$0.00	\$0.00	\$28.21	\$451.43	\$251.11 / Each	\$0.00	\$0.00	\$4,017.83

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
15 - MEC	CHANICAL												
15090 - P	Pipe,drng&sewage,concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 48" dia	800	Lnft	\$42.56	\$34,048.00	\$55.75	\$44,600.00	\$20.21	\$16,168.00	\$118.52 / Lnft	\$0.00	\$0.00	\$94,816.00
	Piping, water dist, conc pipe, gasket, 48" dia	80	Each	\$2.85	\$228.00	\$7.68	\$614.40	\$0.00	\$0.00	\$10.53 / Each	\$0.00	\$0.00	\$842.40
	MECHANICAL Total				\$72,758.40		\$75,031.51		\$40,307.72		\$0.00	\$2,614.00	\$190,711.63
	Project BFB-L Total				\$72,758.40		\$75,031.51		\$41,888.72		\$0.00	\$2,614.00	\$192,292.63
	Grand Total				\$72,758.40		\$75,031.51		\$41,888.72		\$0.00	\$2,614.00	\$192,292.63

Category	Percent	Amount
Labor	37.84%	\$72,758
Material	39.02%	\$75,032
Equipment	21.78%	\$41,889
Subcontractor	0.00%	\$0
Other	1.36%	\$2,614
Net Costs		\$192,293
	40.000/	040.007
Labor Mark-up	18.00%	\$13,097
Material Mark-up	15.00%	\$11,255
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$6,283
Sales tax (material)	7.75%	\$5,815
Sales tax (equipment)	7.75%	\$3,246
Material Shipping & Handling	2.50%	\$1,876
Worker's Travel/Subsistence	0.10%	\$73
Subtotal		\$233,937
Contractor General Conditions	12.00%	\$28,072
Subtotal	12.0070	\$262,009
Earthquake Insurance	0.10%	\$262
Subtotal		\$262,271
Construction Contingency	25.00%	\$65,568
Subtotal		\$327,839
Bldg Risk, Liability Auto Ins.	2.00%	\$6,557
Subtotal		\$334,396
Performance Bond	1.00%	\$3,344
Payment Bond	1.00%	\$3,344
Subtotal		\$341,084
Engineering Fee	10.00%	\$19,229
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		¢270 242
i otai Estimate		\$370,313



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: Jim Warford

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 03

Estimate Revision Date:: 10/9/2006

BC Project Manager:: Chris Herencia Estimate QA/QC Reviewer:: Butch Mathews

Estimate QA/QC Date:: 10/16/2006

PROJECT LOCATION / PROCESS AREA

Project BF1 - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project B	F1												
02 - SITE	CONSTRUCTION												
OZ ONZ	. concrete non												
02320 - E	Backfill Backfill												
	Backfill, dozer backfilling, trench, no compaction, inlet	11	Cuyd	\$0.71	\$8.09	\$0.00	\$0.00	\$1.17	\$13.36				\$21.46
	Backfill, dozer backfilling, trench, no compaction, outlet	10	Cuyd	\$0.71	\$7.38	\$0.00	\$0.00	\$1.17	\$12.19	\$1.88 / Cuyd	\$0.00	\$0.00	\$19.57
00040	De della si												
02340 - E	Bedding, crushed stone 3/4" to 1/2", inlet	9	Cuyd	\$7.64	\$68.00	\$20.73	\$184.50	\$1.73	\$15.40	\$30.1 / Cuyd	\$0.00	\$0.00	\$267.90
	Bedding, crushed stone 3/4" to 1/2", inlet Bedding, crushed stone 3/4" to 1/2", outlet	7	Cuyd	\$7.64	\$52.72	\$20.73	\$143.04	\$1.73	\$13.40				\$207.70
	Bodding, studied storie 6/4 to 1/2 ; outlot		Ouyu	Ψ1.0-1	Ψ02.72	Ψ20.70	Ψ1-10.0-1	ψιιτο	Ψ11.54	φου. τ / Cuyu	ψ0.00	φο.σσ	Ψ201.10
02360 - 0	Compaction												
	Compaction, trench, walk behind, vib. plate, bedding, inlet	8	Cuyd	\$1.76	\$13.55	\$0.00	\$0.00	\$0.47	\$3.58	\$2.22 / Cuyd	\$0.00	\$0.00	\$17.13
	Compaction, trench, walk behind, vib. plate, subgrade, inlet	1	Cuyd	\$1.76	\$1.76	\$0.00	\$0.00	\$0.47	\$0.47	\$2.22 / Cuyd		\$0.00	\$2.23
	Compaction, trench, walk behind, vib. plate, bedding, outlet	6	Cuyd	\$1.76	\$10.38	\$0.00	\$0.00	\$0.47	\$2.74			\$0.00	\$13.13
	Compaction, trench, walk behind, vib. plate, subgrade, outlet	1	Cuyd	\$1.76	\$1.58	\$0.00	\$0.00	\$0.47	\$0.42	, .		\$0.00	\$2.00
	Compaction, trench, walk behind, vib. plate, inlet	10	Cuyd	\$1.76	\$17.95	\$0.00	\$0.00	\$0.47	\$4.74		\$0.00	\$0.00	\$22.70
	Compaction, trench, walk behind, vib. plate, outlet	9	Cuyd	\$1.76	\$16.37	\$0.00	\$0.00	\$0.47	\$4.33	\$2.22 / Cuyd	\$0.00	\$0.00	\$20.69
02410 - F	Excavation, bulk, scrapers												
02410 2	Excavation, self prop scraper, 14 CY 1/4 push dozer, com earth	31500	Cuyd	\$1.15	\$36,225.00	\$0.00	\$0.00	\$4.75	\$149,653.64	\$5.9 / Cuyd	\$0.00	\$0.00	\$185,878.64
		0.000	,-	******	V V V V V V V V V V	70.00	******	**	Q : 10,000101	Quier dely e	73.33	70.00	V .00,0.0.0.
02450 - E	Excavating, trench												
	Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac, inlet	22	Cuyd	\$1.73	\$37.37	\$0.00	\$0.00	\$1.30	\$28.16			\$0.00	\$65.53
	Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac, outlet	17	Cuyd	\$1.73	\$29.93	\$0.00	\$0.00	\$1.30	\$22.56	\$3.03 / Cuyd	\$0.00	\$0.00	\$52.49
00.100	2.												
02480 - F	1 1	94	Cuyd	\$85.11	\$7,966.30	\$42.49	\$3,977.06	\$24.55	¢2 207 00	\$152.15 / Cuyd	\$0.00	\$0.00	\$14,241.24
	Rip-rap, gabions, galv steel mesh boxes, stone filled	94	Cuya	\$65.11	\$7,900.30	\$42.49	\$3,977.06	\$24.55	\$2,297.88	\$152.15 / Cuyu	\$0.00	\$0.00	\$14,241.24
	SITE CONSTRUCTION Total				\$44,456.38		\$4,304.60		\$152,071.42		\$0.00	\$0.00	\$200,832.40
03 - CON					\$11,100.00		\$ 1,00 1100		\$102,01112		φο.σσ	φο.σσ	\$200,00 <u>2</u> .10
	Concrete, ready mix												
	Headwall, inlet	2	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd		\$1,860.00	\$1,860.00
	Headwall, outlet	1	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$997.50	\$997.50
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$2,857.50	\$2,857.50
15 - MEC	CHANICAL CONCRETE TOTAL				φυ.υυ		\$0.00		\$0.00		\$0.00	\$2,657.50	\$2,657.50
TO MEC	THE STATE OF THE S												
15090 - F	Pipe,drng&sewage,concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 36" dia	8	Lnft	\$37.83	\$302.64	\$32.80	\$262.40	\$12.50	\$100.00	\$83.13 / Lnft	\$0.00	\$0.00	\$665.04
	Piping, drainage & sewage, RCP, class 3, no gaskets, 48" dia	8	Lnft	\$42.56	\$340.48	\$55.75	\$446.00	\$20.21	\$161.68	\$118.52 / Lnft	\$0.00	\$0.00	\$948.16
15125 - F	Pipe,strm drng,corr metal	6.		010 ==	# 0005 15	010	***	00	0.1	000.07/: *	0	00.75	0746.55
	Piping, storm drain, CMP, plain, 20' lengths, 24" dia, 14 ga	24	Lnft	\$12.77	\$306.48	\$16.02	\$384.48	\$2.08	\$49.92	\$30.87 / Lnft	\$0.00	\$0.00	\$740.88
	MECHANICAL Total				\$949.60		\$1,092.88		\$311.60		\$0.00	\$0.00	\$2,354.08
	IVILCHANICAL TOTAL				φ υ-4 σ.00		φ1,032.00		φ311.00		φυ.υυ	φυ.00	φ2,354.00
	Project BF1 Total				\$45,405.98		\$5,397.48		\$152,383.02		\$0.00	\$2,857.50	\$206,043.98
					, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		, 3,221110		, :=,::::02		72.00	, ,551.55	, , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Grand Total				\$45,405.98		\$5,397.48		\$152,383.02		\$0.00	\$2,857.50	\$206,043.98

Category	Percent	Amount
Labor	22.04%	\$45,406
Material	2.62%	\$5,397
Equipment	73.96%	\$152,383
Subcontractor	0.00%	\$0
Other	1.39%	\$2,858
Net Costs		\$206,044
Labor Mark-up	18.00%	\$8,173
Material Mark-up	15.00%	\$810
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$22,857
Sales tax (material)	7.75%	\$418
Sales tax (equipment)	7.75%	\$11,810
Material Shipping & Handling	2.50%	\$135
Worker's Travel/Subsistence	0.10%	\$45
Subtotal		\$250,292
Contractor General Conditions	12.00%	\$30,035
Subtotal	12.0070	\$280,328
Earthquake Insurance	0.10%	\$280
Subtotal	0.1070	\$280,608
Construction Contingency	20.00%	\$56,122
Subtotal	20.0070	\$336,729
Bldg Risk, Liability Auto Ins.	2.00%	\$6,735
Subtotal	2.0070	\$343,464
Performance Bond	1.00%	\$3,435
Payment Bond	1.00%	\$3,435
Subtotal		\$350,333
Engineering Fee	10.00%	\$20,604
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$380,938



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: Sharon Bray

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 5/12/2006

Estimate Revision Number:: 03

Estimate Revision Date:: 10/9/2006

BC Project Manager:: Chris Herencia Estimate QA/QC Reviewer:: Bob Ferguson

Estimate QA/QC Date:: 10/16/2006

PROJECT LOCATION / PROCESS AREA

Project BJ - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project B													
02 - SITE	CONSTRUCTION												
00040 (Clear and and												
	Clear & grub, brush, including stumps	6	Aoro	\$1,598.62	\$9,591.72	\$0.00	\$0.00	\$3,351.72	¢20 110 24	\$4950.34 / Acre	\$0.00	\$0.00	\$29,702.06
	Clear & grub, brush, including stumps	0	Acre	\$1,096.02	\$9,591.72	\$0.00	\$0.00	φ3,331.72	\$20,110.34	\$4950.54 / ACIE	\$0.00	φυ.υυ	\$29,702.00
02310 - F	ine grade												
	Grade pad, contour area	23334	Sqyd	\$0.50	\$11,667.00	\$0.00	\$0.00	\$0.40	\$9,406.00	\$0.9 / Sqyd	\$0.00	\$0.00	\$21,073.00
	Grade slopes	6556	Sqyd		\$3,278.00	\$0.00	\$0.00	\$0.40	\$2,643.00	\$0.9 / Sqyd		\$0.00	\$5,921.00
			-										
02320 - E	Backfill												
	Backfill, dozer backfilling, trench, no compaction	7300	Cuyd	\$0.71	\$5,183.00	\$0.00	\$0.00	\$1.17	\$8,556.17	\$1.88 / Cuyd	\$0.00	\$0.00	\$13,739.17
	Compaction Compaction to the Compact of the Compact	7300	Cuyd	\$1.76	£40.040.00	\$0.00	\$0.00	\$0.47	#0.00F.70	© 0.00 / 0	\$0.00	\$0.00	\$16,243.76
	Compaction, trench, walk behind, vib Plate	7300	Cuya	\$1.70	\$12,848.00	\$0.00	\$0.00	\$0.47	\$3,395.76	\$2.22 / Cuyd	\$0.00	\$0.00	\$10,243.70
02400 - F	Excavating bulk, dozer,												
	Hauling, LCY, no loading, 50" haul	31450	Cuyd	\$0.52	\$16,354.00	\$0.00	\$0.00	\$0.86	\$27,047.00	\$1.37 / Cuyd	\$0.00	\$0.00	\$43,401.00
	J, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	21.30	,-	Ţ1,0Z	Ţ. 2,22 NOO	\$2,00	ţ0.00	‡1.00	+====================================	\$1121 ; 3 4)4	\$0.00	75.00	Ţ .5, .5110C
02410 - E	Excavation, bulk, scrapers												
	Excavation, self prop scraper, 14 CY 1/4 push dozer, com earth	7300	Cuyd	\$1.15	\$8,395.00	\$0.00	\$0.00	\$4.75	\$34,681.64	\$5.9 / Cuyd	\$0.00	\$0.00	\$43,076.64
02480 - F													
	Rip-rap, energy dissipater	120	Sqyd	\$51.39	\$6,166.80	\$21.72	\$2,606.40	\$17.04	\$2,045.00	\$90.15 / Sqyd	\$0.00	\$0.00	\$10,818.20
00.400													
	Erosion Control	0550	0 1	00.44	***	00.04	A. 105.01	00.44	0710.71	04.40.40	00.00	00.00	A= 000 40
	Erosion control, jute mesh, 100 SY per roll, 4' wide Erosion control, silt fence, polypropylene, 3' high	6556 1800	Sqyd Inft	\$0.44 \$0.74	\$2,884.64 \$1,332.00	\$0.64 \$0.33	\$4,195.84 \$594.00	\$0.11 \$0.00	\$719.71 \$0.00	\$1.18 / Sqyd \$1.07 / Inft	\$0.00 \$0.00	\$0.00 \$0.00	\$7,800.19 \$1,926.00
	Erosion control, silt fence, polypropylene, 3 high, remove	1800	Init	\$0.74	\$1,332.00	\$0.33	\$594.00	\$0.00	\$0.00	\$0.37 / Inft	\$0.00	\$0.00	\$1,926.00
	Erosion control, hay bales, staked	2200	Inft	\$1.15	\$2,530.00	\$2.25	\$4,950.00	\$0.00		\$3.49 / Inft	\$0.00	\$0.00	\$7,680.00
	Erosion control, hay bales, stated	2200		ψ1.10	Ψ2,000.00	Ψ2.20	ψ+,000.00	ψ0.00	Ψ200.00	ψο. το 7 ππ	ψ0.00	ψ0.00	ψ1,000.00
02840 - L	andscaping												
	Slope Landscaping/irrigation	59000	Sqft	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$29500 / Sqft	\$29,500.00	\$0.00	\$29,500.00
	SITE CONSTRUCTION Total				\$80,896.16		\$12,346.24		\$108,804.62		\$29,500.00	\$0.00	\$231,547.02
03 - CON	ICRETE												
00450													
	Concrete, ready mix		C	#0.00	# 0.00	#0.00	# 0.00	#0.00	# 0.00	Ф7E0 / О:	60.00	fo 250 00	#0.050.00
	Headwall Headwall	3	Cuyd Cuyd	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$750 / Cuyd \$750 / Cuyd	\$0.00 \$0.00	\$2,250.00 \$2,250.00	\$2,250.00 \$2,250.00
	3'x6' RCB Culvert	16	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$12,000.00	\$12,000.00
	OND THOSE GRANTON	10	Cuyu	ψ0.00	ψ0.00	ψ0.00	Ψ0.00	ψ0.00	ψ0.00	ψ/ σσ / σαyα	ψ0.00	Ψ12,000.00	Ψ12,000.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$16,500.00	\$16,500.00
11 - EQU	IIPMENT												
	Process Equipment												
	Water unit	1628	Gal	\$0.70	\$1,139.60	\$1.05	\$1,709.40	\$0.00	\$0.00	\$1.75 / Gal	\$0.00	\$0.00	\$2,849.00
	EQUIPMENT Total				\$1,139.60		\$1,709.40		\$0.00		\$0.00	\$0.00	\$2,849.00
					#00 005 ==		0.4.055 5 1		0400.00 :		400 505	040.500.55	40.50.005.55
	Project BJ Total				\$82,035.76	+	\$14,055.64		\$108,804.62		\$29,500.00	\$16,500.00	\$250,896.02
	Grand Total				\$82.035.76		\$14,055.64		\$108,804.62		\$29.500.00	\$16,500.00	\$250,896.02
	Granu roldi				ა ი∠,∪პე./ნ		\$14,U55.64		\$108,804.62		ა∠9,500.00	\$10,000,00	ა∠ ე∪,გმც.0

Category	Percent	Amount
Labor	32.70%	\$82,036
Material	5.60%	\$14,056
Equipment	43.37%	\$108,805
Subcontractor	11.76%	\$29,500
Other	6.58%	\$16,500
Net Costs		\$250,896
Labor Mark-up	18.00%	\$14,766
Material Mark-up	15.00%	\$2,108
Subcontractor Mark-up	5.00%	\$1,475
Equipment Mark-up	15.00%	\$16,321
Sales tax (material)	7.75%	\$1,089
Sales tax (equipment)	7.75%	\$8,432
Material Shipping & Handling	2.50%	\$351
Worker's Travel/Subsistence	0.10%	\$82
Subtotal		\$295,522
Contractor General Conditions	12.00%	\$35,463
Subtotal		\$330,984
Earthquake Insurance	0.10%	\$331
Subtotal		\$331,315
Construction Contingency	20.00%	\$66,263
Subtotal		\$397,578
Bldg Risk, Liability Auto Ins.	2.00%	\$7,952
Subtotal		\$405,530
Performance Bond	1.00%	\$4,055
Payment Bond	1.00%	\$4,055
Subtotal		\$413,640
Engineering Fee	10.00%	\$25,090
Environmental Permitting (Lump Sum)	-	\$17,000
Total Estimate		\$455,730



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: Jim Warford

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 03

Estimate Revision Date:: 10/9/2016

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 10/16/2006

PROJECT LOCATION / PROCESS AREA

Project BJB - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project B													
02 - SITE	CONSTRUCTION												
02340 - 1												***	
	Backing Material class #1	150	Cuyd	\$15.05	\$2,257.50	\$40.10	\$6,015.00	\$18.79	\$2,818.18	\$73.93 / Cuyd	\$0.00	\$0.00	\$11,090.68
02360 -	Compaction												
02000	Compaction, trench, walk behind, vib., Plate	80	Cuyd	\$1.76	\$140.80	\$0.00	\$0.00	\$0.47	\$37.21	\$2.22 / Cuyd	\$0.00	\$0.00	\$178.01
	, , , , , , , , , , , , , , , , , , , ,		,	•	,		•	* -	*-				
02450 -	Excavating												
	Excavating, bulk bank measure, FE loader, whl mtd, 1.5 CY cap = 80	440	Cuyd	\$1.00	\$440.00	\$0.00	\$0.00	\$0.64	\$280.43	\$1.63 / Cuyd	\$0.00	\$0.00	\$720.43
02460 - 1													
	Disposal fee	25	Trk	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$105 / Trk		\$2,625.00	\$2,625.00
	Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI RT, 0.4 lds/hr	440	Cuyd	\$7.18	\$3,159.20	\$3.00	\$1,320.00		\$6,796.43			\$0.00	\$11,275.63
	Loading Trucks, F.E. Loader, 3 C.Y, clear & grub	440	Cuyd	\$0.52	\$228.80	\$0.00	\$0.00	\$0.99	\$434.43	\$1.5 / Cuyd	\$0.00	\$0.00	\$663.23
02470 - 3	Soil stabilization												
02770	Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	525	Sqyd	\$0.29	\$152.25	\$1.71	\$897.75	\$0.00	\$0.00	\$2 / Sqyd	\$0.00	\$0.00	\$1,050.00
02480 - 1	Pin ron												
02400 - 1	Rip-rap, gabions, galv steel mesh boxes, stone filled, 36" deep	290	Cuvd	\$67.91	\$19.693.90	\$42.49	\$12.322.10	\$24.56	¢7 122 40	\$134.96 / Cuyd	\$0.00	\$0.00	\$39,138.40
	Kip-rap, gabioris, gaiv steel mesh boxes, stone illied, 36 deep	290	Cuyu	\$67.91	\$19,093.90	Ф42.49	\$12,322.10	\$24.50	\$7,122.40	\$134.90 / Cuyu	\$0.00	\$0.00	\$39,136.40
	SITE CONSTRUCTION Total				\$26.072.45		\$20.554.85		\$17.489.08		\$0.00	\$2,625,00	\$66.741.38
03 - COI	NCRETE				φ20,072.45		φ20,004.60		\$17,469.06		\$0.00	\$2,023.00	\$00,741.38
02450	Concrete, ready mix												
03150 - 0	Wing wall for 7'X11' box culvert	0	Cuvd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$6,750.00	\$6,750.00
	vvilig wall for 7 ATT box curvert	9	Cuya	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	φ/30/Cuyu	\$0.00	φυ,750.00	φ0,750.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$6,750.00	\$6,750.00
	Project BJB Total				\$26,072.45		\$20,554.85		\$17,489.08		\$0.00	\$9,375.00	\$73,491.38
					***************************************		400 554 05		447.400.00		40.00	40.075.00	A=0 404 00
	Grand Total				\$26,072.45		\$20,554.85		\$17,489.08		\$0.00	\$9,375.00	\$73,491.38

Category	Percent	Amount
Labor	35.48%	\$26,072
Material	27.97%	\$20,555
Equipment	23.80%	\$17,489
Subcontractor	0.00%	\$0
Other	12.76%	\$9,375
Net Costs		\$73,491
Lohor Morleya	18.00%	\$4.602
Labor Mark-up	15.00%	\$4,693 \$2,003
Material Mark-up		\$3,083
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$2,623
Sales tax (material)	7.75%	\$1,593
Sales tax (equipment)	7.75%	\$1,355
Material Shipping & Handling	2.50%	\$514
Worker's Travel/Subsistence	0.10%	\$26
Subtotal		\$87,379
Contractor General Conditions	12.00%	\$10,486
Subtotal		\$97,865
Earthquake Insurance	0.10%	\$98
Subtotal		\$97,963
Construction Contingency	25.00%	\$24,491
Subtotal		\$122,453
Bldg Risk, Liability Auto Ins.	2.00%	\$2,449
Subtotal		\$124,903
Performance Bond	1.00%	\$1,249
Payment Bond	1.00%	\$1,249
Subtotal		\$127,401
Engineering Fee	10.00%	\$7,349
Environmental Permitting (Lump Sum)	-	\$10,000
Total Fatimata		¢4.4.4.750
Total Estimate		\$144,750



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: Sharon Bray Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 5/11/2006

Estimate Revision Number:: 03

Estimate Revision Date:: 10/9/2006

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Bob Ferguson
Estimate QA/QC Date:: 10/16/2006

PROJECT LOCATION / PROCESS AREA

Project BL-U - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project I													
01 - GE	NERAL REQUIREMENTS												
01200	General equipment rental												
01200 -	Trench box, 9500 lbs, 8'x 20'	10	Dav	\$0.00	\$0.00	\$0.00	\$0.00	\$131.75	\$1,317.50	\$131.75 / Day	\$0.00	\$0.00	\$1,317.50
	Trench Plates allowance	10	Mo	\$0.00	\$0.00	\$0.00	\$0.00	\$500.00	\$500.00	\$500 / Mo	\$0.00	\$0.00	\$500.00
	GENERAL REQUIREMENTS Total			ψ0.00	\$0.00	φοισσ	\$0.00	Ψ000.00	\$1,817.50	\$600 / III0	\$0.00	\$0.00	\$1,817.50
02 - SIT	E CONSTRUCTION												
02020 -	Underground marking tape					4	^			4			
	Underground tape, detectable aluminum, 2"	8	Clf	\$2.34	\$18.72	\$3.06	\$24.48	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$43.20
02320 -	Backfill												
	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	943	Cuyd	\$0.71	\$669.53	\$0.00	\$0.00	\$1.17	\$1,105.27	\$1.88 / Cuyd	\$0.00	\$0.00	\$1,774.80
02340 -	Bedding Bedding, crushed stone 3/4" to 1/2"	737	Cuyd	\$7.64	\$5.630.68	\$20.73	\$15.278.01	\$1.73	\$1,275.58	\$30.1 / Cuyd	\$0.00	\$0.00	\$22.184.27
	J.	131	Ouyu	Ψ1.04	ψ0,000.00	Ψ20.13	ψ13,270.01	ψ1.75	ψ1,273.30	ψ50.17 Ouyu	ψ0.00	ψ0.00	ΨΖΖ, 104.27
02360 -	Compaction		0 1	04.70	# 400.00	A 0.00	00.00	A0.47	040.00	***	00.00	00.00	# 000 0
	Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes	93 634	Cuyd	\$1.76 \$2.70	\$163.68 \$1,711.80	\$0.00 \$0.00	\$0.00 \$0.00	\$0.47 \$0.72	\$43.26 \$453.45	\$2.22 / Cuyd \$3.41 / Cuyd	\$0.00 \$0.00	\$0.00 \$0.00	\$206.94 \$2,165.25
	Compaction, rammer tamper, 6" to 11", 4" lifts, bedding Compaction, rammer tamper, 6" to 11", 4" lifts, backfill	849	Cuyd Cuyd	\$2.70	\$1,711.80	\$0.00	\$0.00	\$0.72 \$0.72	\$453.45 \$607.23	\$3.41 / Cuyd	\$0.00	\$0.00	\$2,165.25
	Compaction, familier tamper, or to 11, 4 miles, backing	040	Ouyu	Ψ2.70	ψ2,232.30	Ψ0.00	ψ0.00	ψ0.72	ψ007.23	ψ3.41 / Ouyu	ψ0.00	ψ0.00	Ψ2,000.00
02450 -	Excavating, trench												
	Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	1729	Cuyd	\$1.56	\$2,697.24	\$0.00	\$0.00	\$1.17	\$2,029.00	\$2.73 / Cuyd	\$0.00	\$0.00	\$4,726.24
02460 -	Hauling												
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	1218	Cuyd	\$5.41	\$6,589.38	\$0.00	\$0.00	\$9.45	\$11,512.80	\$14.86 / Cuyd	\$0.00	\$0.00	\$18,102.18
	Loading Trucks, F.E. Loader, 3 C.Y	1218	Cuyd	\$0.66	\$803.88	\$0.00	\$0.00	\$1.13	\$1,380.68	\$1.79 / Cuyd	\$0.00	\$0.00	\$2,184.56
02490 -	Erosion control												
02 100	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
02570 -	Catch basins or manholes												
02070 -	Junction structure	2	Each	\$619.52	\$1,239.04	\$5.000.00	\$10.000.00	\$0.00	\$0.00	\$5619.52 / Each	\$0.00	\$0.00	\$11.239.04
	CB or manholes, conc, precast, 4' ID, 6' deep	4	Each	\$497.85	\$1,991.40	\$482.94	\$1,931.76	\$135.67	*	\$1116.45 / Each	\$0.00	\$0.00	\$4,465.83
	CB or manholes, conc, slab tops, precast, 8" thick, 4' dia	4	Each	\$143.28	\$573.12	\$177.27	\$709.08	\$32.50	\$130.00	\$353.05 / Each	\$0.00	\$0.00	\$1,412.20
	Catch bsns or manholes, frs and covs, hvy traffic, 24" diam, 400 lb.	4	Each	\$146.95	\$587.80	\$179.54	\$718.16	\$50.00		\$376.49 / Each	\$0.00	\$0.00	\$1,505.96
	CB or manholes, inverts, single channel brick, concrete	4	Each	\$132.85	\$531.40	\$61.00	\$244.00	\$0.00	\$0.00		\$0.00	\$0.00	\$775.40
	Catch basins or manholes, steps, standard sizes, aluminum Cleanout	12	Each Each	\$8.94 \$926.00	\$107.28 \$926.00	\$17.05 \$1,300.00	\$204.60 \$1,300.00	\$0.00 \$226.00	\$0.00 \$226.00		\$0.00 \$0.00	\$0.00 \$0.00	\$311.88 \$2,452.00
	Cleanout	-	Lacii	ψ920.00	φ920.00	\$1,300.00	\$1,300.00	ΨΖΖ0.00	\$220.00	\$2432 / Lacii	φυ.υυ	φυ.υυ	Ψ2,432.00
	SITE CONSTRUCTION Total				\$26,533.25		\$30,410.09		\$19,505.93		\$0.00	\$2,614.00	\$79,063.27
15 - ME	CHANICAL												
15000	Pipe,drng&sewage,concret												
13090 -	Piping, drainage & sewage, RCP, class 3, no gaskets, 39" dia	800	Lnft	\$37.83	\$30,264.00	\$44.51	\$35,608.00	\$17.97	\$14,376.00	\$100.31 / Lnft	\$0.00	\$0.00	\$80,248.00
	Piping, water dist, conc pipe, gasket, 39" dia	80	Each	\$2.85	\$228.00	\$7.68	\$614.40	\$0.00	\$0.00	\$10.53 / Each	\$0.00	\$0.00	\$842.40
	MECHANICAL Total				\$30,492.00		\$36,222.40		\$14,376.00		\$0.00	\$0.00	\$81,090.40
	Project BL-U Total				\$57,025.25		\$66,632.49		\$35,699.43		\$0.00	\$2,614.00	\$161,971.17
	Grand Total				\$57,025.25		\$66,632.49		\$35,699,43		\$0.00	\$2,614.00	\$161,971.17
	Grand Total				φυ1,020.25		φυυ,032.49		φυυ,099.43		φυ.00	14.00 وعب	φιυι, 5/ Ι.1 <i>/</i>

Category	Percent	Amount
Labor	6.32%	\$57,025
Material	7.38%	\$66,632
Equipment	3.96%	\$35,699
Subcontractor	0.00%	\$0
Other	0.29%	\$2,614
Net Costs		\$161,971
Labor Mark-up	18.00%	\$10,265
Material Mark-up	15.00%	\$9,995
Subcontractor Mark-up	5.00%	φ _{9,990} \$0
Equipment Mark-up	15.00%	φυ \$5,355
Sales tax (material)	7.75%	\$5,355 \$5,164
Sales tax (material) Sales tax (equipment)	7.75%	\$2,767
, , ,	2.50%	
Material Shipping & Handling Worker's Travel/Subsistence	0.10%	\$1,666 \$57
vvorker's Travel/Subsistence	0.10%	φ5/
Subtotal		\$197,239
Contractor General Conditions	12.00%	\$23,669
Subtotal		\$220,908
Earthquake Insurance	0.10%	\$221
Subtotal		\$221,129
Construction Contingency	25.00%	\$55,282
Subtotal		\$276,411
Bldg Risk, Liability Auto Ins.	2.00%	\$5,528
Subtotal		\$281,939
Performance Bond	1.00%	\$2,819
Payment Bond	1.00%	\$2,819
Subtotal		\$287,578
Engineering Fee	10.00%	\$16,197
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$313,775
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Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: Sharon Bray

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 5/12/2006

Estimate Revision Number:: 03

Estimate Revision Date:: 10/9/2006

BC Project Manager:: Chris Herencia Estimate QA/QC Reviewer:: Bob Ferguson

Estimate QA/QC Date:: 10/16/2006

PROJECT LOCATION / PROCESS AREA

Project BL-L - Located in Basin B

Item	Item Description Quant	ity Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project E												
01 - GEI	NERAL REQUIREMENTS											
04000	Our and a minute to the state of the state o											
01200 -	General equipment rental	1 Dec	. CO 00	\$0.00	\$0.00	\$0.00	\$131.75	\$131.75	\$404.75 / Day	#0.00	\$0.00	\$131.7
	Trench box, 9500 lbs, 8'x 20' Trench Plates allowance	1 Day			\$0.00	\$0.00	\$500.00		\$131.75 / Day \$500 / Mo	\$0.00 \$0.00	\$0.00	\$131.7
	GENERAL REQUIREMENTS Total	I IVIC	J \$0.00	\$0.00	φ0.00	\$0.00	φ300.00	\$631.75	\$300 / IVIO	\$0.00	\$0.00	\$631.7
				70.00		70.00		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		70.00	70.00	
02 SITE	CONSTRUCTION											
02060 -	Site demolition											
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	10 Sqy			\$0.00	\$0.00	\$3.20		\$7.95 / Sqyd		\$0.00	\$79.5
	Asphalt disposal - hauling and disposal fee, 4" thick	1 Sqy	\$0.89	\$0.89	\$4.30	\$4.30	\$1.20	\$1.20	\$6.38 / Sqyd	\$0.00	\$0.00	\$6.3
00470	Saw cutting											
02170 -	Saw cutting, asphalt, up to 3" deep	65 Lnf	t \$0.78	\$50.70	\$0.15	\$9.75	\$0.40	\$26.31	\$1.33 / Lnft	\$0.00	\$0.00	\$86.7
	Saw cutting, asphalt, up to 3 deep Saw cutting, asphalt, after 3" deep; each addl inch of depth	65 Lnf			\$0.13	\$2.60	\$0.40		\$0.73 / Lilit		\$0.00	\$47.8
	can canny, apprian, and o doop, capit addrition of dopin	JO LIII	. ψυ.40	Ψ23.90	Ψ0.04	ΨΖ.00	ψ0.24	ψ10.32	ψυ./ υ/ Ε/ΙΙΙ	Ψ0.00	ψ0.00	Ψ-1.0
02310 -	Fine grade											
	Fine grade under asphalt	10 Sqy	\$0.77	\$7.70	\$0.00	\$0.00	\$0.16	\$1.64	\$0.93 / Sqyd	\$0.00	\$0.00	\$9.3
02320 -												
	Backfill, dozer backfilling, trench, no compaction	33 Cuyo	\$0.71	\$23.43	\$0.00	\$0.00	\$1.17	\$38.68	\$1.88 / Cuyd	\$0.00	\$0.00	\$62.1
00040												
02340 -	Bedding Bedding, crushed stone 3/4" to 1/2"	9 Cuyo	\$7.64	\$64.94	\$20.73	\$176.21	\$1.73	\$14.71	\$30.1 / Cuyd	\$0.00	\$0.00	\$255.8
	Beduing, crusiled storie 3/4 to 1/2	9 Cuy	¥1.04	φυ4.54	φ20.73	\$170.21	ψ1.73	φ14.71	φ30.17 Cuyu	φυ.υυ	φ0.00	Ψ233.0
02360 -	Compaction											
	Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes	74 Cuyo	\$1.76	\$130.24	\$0.00	\$0.00	\$0.47	\$34.42	\$2.22 / Cuyd	\$0.00	\$0.00	\$164.6
	Compaction, rammer tamper, 6" to 11", 4" lifts, bedding	74 Cuyo	\$2.70	\$199.80	\$0.00	\$0.00	\$0.72	\$52.93	\$3.41 / Cuyd	\$0.00	\$0.00	\$252.7
	Compaction, rammer tamper, 6" to 11", 4" lifts, backfill	74 Cuyo	\$2.70	\$199.80	\$0.00	\$0.00	\$0.72	\$52.93	\$3.41 / Cuyd	\$0.00	\$0.00	\$252.7
02450 -	Excavating, trench				***		*					
	Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	107 Cuyo	\$1.56	\$166.92	\$0.00	\$0.00	\$1.17	\$125.57	\$2.73 / Cuyd	\$0.00	\$0.00	\$292.4
02460 -	Hauling											
02400 -	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	74 Cuyo	\$5.41	\$400.34	\$0.00	\$0.00	\$9.45	\$699.46	\$14.86 / Cuyd	\$0.00	\$0.00	\$1.099.8
	Loading Trucks, F.E. Loader, 3 C.Y	74 Cuy			\$0.00	\$0.00	\$1.13		\$1.79 / Cuyd		\$0.00	\$132.7
	Disposal fee	4 Trl			\$0.00	\$0.00	\$0.00	*	\$105 / Trk	\$0.00	\$388.50	\$388.5
02490 -	Erosion control											
	Erosion control allowance::	1 Lsun	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500 / Lsum	\$0.00	\$500.00	\$500.0
02600	Base course											
02600 -	Base course Base course, large areas, crushed 3/4" stone, compacted to 9" deep	10 Sqy	\$0.73	\$7.30	\$6.88	\$68.80	\$0.93	\$9.31	\$8.54 / Sqyd	\$0.00	\$0.00	\$85.4
	base course, large areas, crushed 3/4 stone, compacted to 9 deep	10 Sqy0	J \$0.73	\$7.30	Φ0.00	φ00.00		\$9.51	ъо.54 / Sqyu	\$0.00	\$0.00	Φ00.4
02610 -	Asphalt concrete pavement											
	Asphaltic conc pavement, pavement replacement over trench, 4" thick	10 Sqy	\$31.92	\$319.20	\$7.22	\$72.20	\$2.73	\$27.30	\$41.87 / Sqyd	\$0.00	\$0.00	\$418.7
02840 -	Landscaping								-	-		
	Landscaping Allowance:	1 Lsun			\$0.00	\$0.00	\$0.00		\$500 / Lsum	\$500.00	\$0.00	\$500.0
	Traffic Control Allowance:	1 Lsun	\$0.00		\$0.00	\$0.00	\$0.00		\$500 / Lsum		\$500.00	\$500.0
	SITE CONSTRUCTION Total			\$1,697.60		\$333.86		\$1,215.61		\$500.00	\$1,388.50	\$5,135.5
			1	I .				1		I		

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
15 - MEC	CHANICAL												
15090 - F	Pipe,drng&sewage,concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 90" dia	20	Lnft	\$127.50	\$2,550.00	\$277.88	\$5,557.60	\$56.59			\$0.00		\$9,239.40
	Piping, water dist, conc pipe, gasket, 90" dia	2	Each	\$2.85	\$5.70	\$30.46	\$60.92	\$0.00		\$33.31 / Each	\$0.00		\$66.62
	MECHANICAL Total				\$2,555.70		\$5,618.52		\$1,131.80		\$0.00	\$0.00	\$9,306.02
	Project BL-L (90 inch RCP) Total				\$4,253.30		\$5,952.38		\$2,979.16		\$500.00	\$1,388.50	\$15,073.34
Project B	BL-L - Bridge												
	IERAL REQUIREMENTS												
01210 - L	_ifting and hoisting equipment												
	Rent crane truck mounted, hydraulic, 55 ton capacity	30	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$27048 / Day	\$27,048.00	\$0.00	\$27,048.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$0.00		\$27,048.00	\$0.00	\$27,048.00
02 SITE	CONSTRUCTION												
02280 - 3	Sheet piling Sheet piling, steel, no wales, 15' excav., drive, extract & salvage	2700	Saft	\$12.75	\$34,425.00	\$7.61	\$20,547.00	\$9.64	\$26,040.00	\$30 / Sqft	\$0.00	\$0.00	\$81,012.00
02340 - E			- 1		. ,		. ,	*	,				
02340 - E	Bedding, crushed stone 3/4" to 1/2"	52	Cuyd	\$7.64	\$397.28	\$20.73	\$1,077.96	\$1.73	\$90.00	\$30.1 / Cuyd	\$0.00	\$0.00	\$1,565.24
	bedding, crusned stone 3/4 to 1/2	32	Cuyu	\$7.04	φ397.26	φ20.73	\$1,077.96	\$1.73	\$90.00	\$30.17 Cuyu	\$0.00	\$0.00	φ1,363.24
02360 - 0	Compaction												
	Compaction, walk behind, vibrating plate 18" wide, subgrade	25	Cuyd	\$1.76	\$44.00	\$0.00	\$0.00	\$0.47	\$11.63	\$2.22 / Cuyd	\$0.00	\$0.00	\$55.63
	Compaction, walk behind, vibrating plate 18" wide, bedding	50	Cuyd	\$1.76	\$88.00	\$0.00	\$0.00	\$0.47	\$23.26	\$2.22 / Cuyd	\$0.00	\$0.00	\$111.26
02420 - H	Excavating, structural												
	Excavating, structural, mach excav, com earth, hyd backhoe, 2 CY	2000	Cuyd	\$4.67	\$9,340.00	\$0.00	\$0.00	\$6.13	\$12,264.00	\$10.8 / Cuyd	\$0.00	\$0.00	\$21,604.00
02420 - F	Hauling												
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	2600	Cuyd	\$5.41	\$14,066.00	\$0.00	\$0.00	\$9.45	\$24,575.76	\$14.86 / Cuyd	\$0.00	\$0.00	\$38,641.76
	Loading Trucks, F.E. Loader, 3 C.Y	2600	Cuyd		\$1,716.00	\$0.00	\$0.00	\$1.13			\$0.00	\$0.00	\$4,663.25
	Disposal fee	130	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$105 / Trk	\$0.00		\$13,650.00
	SITE CONSTRUCTION Total				\$60,076.28		\$21,624.96		\$65,951.90		\$0.00	\$0.00	\$161,303.14
03 - CON	ICRETE												
	Concrete, ready mix		_	4						A			
	Wall, bridge	278	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	*	\$750 / Cuyd			\$208,500.00
	Footing	32	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$750 / Cuyd	\$0.00		\$24,000.00
	Elevated slab	32	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$650 / Cuyd	\$0.00		\$20,800.00
	Headwall	10	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00		\$7,500.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$260,800.00	\$260,800.00

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
05 - MET	TALS												
05010 - I	Misc Metals												
	Misc metals, allowance	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500 / Lsum	\$0.00	\$500.00	\$500.00
05040 - 3	Structural steel members												
	Struct stl, WF, W 36 x 170	270	Lnft	\$4.08	\$1,101.60	\$103.70	\$27,999.00	\$1.71	\$463.00	\$109.49 / Lnft	\$0.00	\$0.00	\$29,563.60
	MECHANICAL Total				\$1,101.60		\$27,999.00		\$463.00		\$0.00	\$500.00	\$30,063.60
	Project Bridge Total				\$61,177.88		\$49,623.96		\$66,414.90		\$27,048.00	\$261,300.00	\$479,214.74
	Project BL-L Total				\$65,431.18		\$55,576.34		\$69,394.07		\$27,548.00	\$262,688.50	\$494,288.08
	·												
	Grand Total				\$65,431.18		\$55,576.34		\$69,394.07		\$27,548.00	\$262,688.50	\$480,638.08

Category	Percent	Amount
Labor	7.25%	\$65,431
Material	6.16%	\$55,576
Equipment	7.69%	\$69,394
Subcontractor	3.05%	\$27,548
Other	29.11%	\$262,689
Net Costs		\$480,638
Labor Mark-up	18.00%	\$11,778
Material Mark-up	15.00%	\$8,336
Subcontractor Mark-up	5.00%	\$1,377
Equipment Mark-up	15.00%	\$10,409
Sales tax (material)	7.75%	\$4,307
Sales tax (equipment)	7.75%	\$5,378
Material Shipping & Handling	2.50%	\$1,389
Worker's Travel/Subsistence	0.10%	\$65
Subtotal		\$523,679
Contractor General Conditions	12.00%	\$62,841
Subtotal	12.0076	\$586,520
Earthquake Insurance	0.10%	\$587
Subtotal	0.1076	\$587,107
Construction Contingency	20.00%	\$117,421
Subtotal	20.0076	\$704,528
Bldg Risk, Liability Auto Ins.	2.00%	\$14,091
Subtotal	2.0070	\$718,619
Performance Bond	1.00%	\$7,186
Payment Bond	1.00%	\$7,186
Subtotal		\$732,991
Engineering Fee	10.00%	\$48,064
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		¢704 055
Total Estimate		\$791,055



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: Jim Warford

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 03

Estimate Revision Date:: 10/9/2006

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 10/16/2006

PROJECT LOCATION / PROCESS AREA

Project BM - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project E													
02 SITE	CONSTRUCTION												
	Fine grade												
	Fine grade under asphalt	560	Sqyd	\$0.77	\$431.20	\$0.00	\$0.00	\$0.16	\$91.85	\$0.93 / Sqyd	\$0.00	\$0.00	\$523.05
02340 - 1	Bedding				A.					*****			
	Bedding, crushed stone 3/4" to 1/2"	193	Cuyd	\$7.64	\$1,474.52	\$20.73	\$4,000.89	\$1.73	\$334.04	\$30.1 / Cuyd	\$0.00	\$0.00	\$5,809.45
02360 - 1	Compaction												
02300 - 1	Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes	1945	Cuyd	\$1.76	\$3,423.20	\$0.00	\$0.00	\$0.47	\$904.76	\$2.22 / Cuyd	\$0.00	\$0.00	\$4,327.96
	Compaction, rammer tamper, 6" to 11", 4" lifts, bedding	1945	Cuyd	\$2.70	\$5,251.50	\$0.00	\$0.00	\$0.72	\$1,391.11	\$3.41 / Cuyd		\$0.00	\$6,642.61
	Compaction, rammer tamper, 6" to 11", 4" lifts, backfill	1945	Cuyd	\$2.70	\$5,251.50	\$0.00	\$0.00		\$1,391.11	\$3.41 / Cuyd		\$0.00	\$6,642.61
	Compaction, raminor tampor, or to 11, 4, into, backing	1040	Ouyu	Ψ2.70	ψο,201.00	ψ0.00	ψ0.00	Ψ0.72	ψ1,001.11	ψ0.+17 Ouyu	ψ0.00	ψ0.00	ψ0,042.01
02450 -	Excavating, trench												
	Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	3000	Cuyd	\$1.56	\$4,680.00	\$0.00	\$0.00	\$1.17	\$3,520.53	\$2.73 / Cuyd	\$0.00	\$0.00	\$8,200.53
			Í			·						·	
02480 - 1	Rip-rap												
	Rip-rap, energy dissipater	120	Sqyd	\$51.39	\$6,166.80	\$21.72	\$2,606.40	\$17.04	\$2,045.00	\$90.15 / Sqyd	\$0.00	\$0.00	\$10,818.20
00.400	Erosion control												
02490 - 1	Erosion control allowance:	2	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$5,228.00	\$5,228.00
	Erosion control allowance.		LSum	\$0.00	\$0.00	\$0.00	\$0.00	φυ.υυ	\$0.00	φ2014 / LSuIII	\$0.00	\$5,226.00	φ3,226.00
02600 -	l Base course												
02000 - 1	Base course, large areas, crushed 3/4" stone, compacted to 9" deep	577	Sqyd	\$0.73	\$421.21	\$6.88	\$3,969,76	\$0.93	\$537.05	\$8.54 / Sqyd	\$0.00	\$0.00	\$4.928.02
	base course, large areas, crusined 5/4 storie, compacted to 5 deep	311	Oqyu	ψ0.73	Ψ-21.21	ψ0.00	ψ5,505.70	ψ0.33	ψ.007.00	ψ0.5 4 / Oqyu	ψ0.00	ψ0.00	ψ+,520.02
02840 - 1	Landscaping												
	Landscaping Allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500 / Lsum	\$500.00	\$0.00	\$500.00
	Traffic Control Allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500 / Lsum	\$0.00	\$500.00	\$500.00
	SITE CONSTRUCTION Total				\$27,099.93		\$10,577.05		\$10,215.46		\$500.00	\$5,728.00	\$54,120.44
03 - 001	 NCRETE												
03 - 001	VONETE												
03150 -	Concrete, ready mix												
	12'x5' RCB Culvert	366	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$274,500.00	\$274,500.00
	Headwall	5	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$750 / Cuyd		\$3,750.00	\$3,750.00
	Headwall	5	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd		\$3,750.00	\$3,750.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00	_	\$0.00	\$282,000.00	\$282,000.00
										·			
	Project BM Total				\$27,099.93		\$10,577.05		\$10,215.46		\$500.00	\$287,728.00	\$336,120.44
	Grand Total				\$27.099.93		\$10.577.05		\$10,215.46		\$500.00	\$287,728.00	\$336,120.44
	Granu rotai				\$21,099.93		\$10,5 <i>11</i> .05		\$10,∠15.4b		\$500.00	\$201,120.UU	\$330,120.4

Category	Percent	Amount
Labor	3.00%	\$27,100
Material	1.17%	\$10,577
Equipment	1.13%	\$10,215
Subcontractor	0.06%	\$500
Other	31.89%	\$287,728
Net Costs		\$336,120
Labor Mark-up	18.00%	\$4,878
Material Mark-up	15.00%	\$1,587
Subcontractor Mark-up	5.00%	\$25
Equipment Mark-up	15.00%	\$1,532
Sales tax (material)	7.75%	\$820
Sales tax (material)	7.75%	\$792
Material Shipping & Handling	2.50%	\$264
Worker's Travel/Subsistence	0.10%	\$27
Subtotal		\$346,045
Contractor General Conditions	12.00%	\$41,525
Subtotal	12.00 /6	\$387,571
Earthquake Insurance	0.10%	\$388
Subtotal	0.1076	\$387,958
Construction Contingency	20.00%	\$77,592
Subtotal	20.0070	\$465,550
Bldg Risk, Liability Auto Ins.	2.00%	\$9,311
Subtotal	2.0070	\$474,861
Performance Bond	1.00%	\$4,749
Payment Bond	1.00%	\$4,749
Subtotal	110070	\$484,358
Engineering Fee	10.00%	\$33,612
Environmental Permitting (Lump Sum)	-	\$7,000
Total Estimata		¢524.070
Total Estimate		\$524,970



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: Sharon Bray

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 5/12/2006

Estimate Revision Number:: 03

Estimate Revision Date:: 10/9/2006

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Bob Ferguson
Estimate QA/QC Date:: 10/16/2006

PROJECT LOCATION / PROCESS AREA

Project BN - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project B	N												
02 - SITE	CONSTRUCTION												
00000	Nte demolities												
	Site demolition Site dml, conc7" to 24" thick, rod reinforced	23	Cuyd	\$83.33	\$1,916.59	\$0.00	\$0.00	\$55.96	¢1 207 00	\$139.28 / Cuyd	\$0.00	\$0.00	\$3,203.59
	Site diffi, concr. to 24. trick, rod reinforced	23	Cuyu	φου.υυ	\$1,910.59	\$0.00	φυ.υυ	φυυ.90	\$1,267.00	\$139.26 / Cuyu	φυ.υυ	\$0.00	φ3,203.38
02420 - E	Excavating, structural												
	Excavating, structural, mach excav, com earth, hyd backhoe, 3 CY	800	Cuyd	\$1.46	\$1,168.00	\$0.00	\$0.00	\$4.58	\$3,661.60	\$6.03 / Cuyo	\$0.00	\$0.00	\$4,829.60
	Excavating, structural, mach excav, com earth, hyd backhoe, 3 CY	500	Cuyd	\$1.46	\$730.00	\$0.00	\$0.00	\$4.58	4 - 7	\$6.03 / Cuyo			\$3,018.50
			, -				,	*	, ,	, , .			, , , , , , , , , , , , , , , , , , , ,
02430 - F	-ill												
	Fill, spread dumped material, by dozer, no compaction	1400	Cuyd	\$1.34	\$1,876.00	\$0.00	\$0.00	\$2.19	\$3,069.00	\$3.53 / Cuyo	\$0.00	\$0.00	\$4,945.00
02460 - F													
	Disposal fee	20	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				\$2,100.00
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr,	23	Cuyd	\$6.61	\$152.03	\$0.00	\$0.00	\$9.45	\$217.40				\$369.43
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	2600	Cuyd	\$5.41	\$14,066.00	\$0.00	\$0.00	\$9.45					\$38,641.76
	Hauling, LCY, no loading, 12 c.y. dump truck, 6 MI RT, 1 lds/hr	1400	Cuyd	\$10.52	\$14,728.00	\$0.00	\$0.00	\$18.95					\$41,257.00
	Loading Trucks, F.E. Loader, 3 C.Y	2600	Cuyd	\$0.66	\$1,716.00	\$0.00	\$0.00	\$1.13					\$4,663.25
	Loading Trucks, F.E. Loader, 3 C.Y, concrete	23	Cuyd	\$0.80	\$18.40	\$0.00	\$0.00	\$2.17	\$49.91	\$2.97 / Cuyo			\$68.31
	Loading Trucks, F.E. Loader, 3 C.Y	1400	Cuyd	\$0.66	\$924.00	\$0.00	\$0.00	\$1.13	\$1,586.98	\$1.79 / Cuyo	\$0.00	\$0.00	\$2,510.98
02470 - 9	Soil stabilization												
	Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	1667	Sayd	\$0.29	\$483.43	\$1.71	\$2.850.57	\$0.00	\$0.00	\$2 / Sqy0	\$0.00	\$0.00	\$3,334.00
	Soli stabilization, geotextile labric, woveri, H.D., 600 lb. tensile st	1007	Sqyu	ψ0.29	φ403.43	Ψ1.71	φ2,030.37	ψ0.00	φ0.00	\$2 / SqyC	φυ.υυ	φυ.υυ	φ5,554.00
02480 - F	Rip-rap												
	Backing Material class #1	33	Cuyd	\$15.05	\$496.65	\$40.10	\$1,323,30	\$18.79	\$620.00	\$73.93 / Cuyo	\$0.00	\$0.00	\$2,439.95
	Rip-rap, mach placed for slp protec, 18" min thick. not grouted	155	Sqyd	\$51.39	\$7,965.45	\$119.00	\$18,445.00	\$18.78	\$2,910.89			\$0.00	\$29,321.34
	Rip-rap, gabions, galv steel mesh boxes, stone filled	165	Cuyd	\$85.11	\$14,043.15	\$42.49	\$7,010.85	\$24.55	\$4,050.75	\$152.15 / Cuyo	\$0.00	\$0.00	\$25,104.75
	SITE CONSTRUCTION Total				\$60,283.70		\$29,629.72		\$73,794.05		\$0.00	\$2,100.00	\$165,807.47
03 - CON	ICRETE												
03150 - 0	Concrete, ready mix												
	Apron wall	8	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyo	\$0.00	\$6,000.00	\$6,000.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$6,000.00	\$6,000.00
	Desired DN Test				#60.000.70		\$20,620 7 0		P70 70 4 0F		# 0.00	©0.400.00	¢474 007 47
	Project BN Total				\$60,283.70		\$29,629.72		\$73,794.05		\$0.00	\$8,100.00	\$171,807.47
	Grand Total				\$60.283.70		\$29.629.72		\$73,794.05		\$0.00	\$8,100,00	\$171.807.47
	Granu rotai				⊅ 00,∠03./0		\$29,029.72		⊅/3,/94.05		\$0.00	\$6,100.00	\$171,007.47

Category	Percent	Amount
Labor	6.68%	\$60,284
Material	3.28%	\$29,630
Equipment	8.18%	\$73,794
Subcontractor	0.00%	\$0
Other	0.90%	\$8,100
Net Costs		\$171,807
Labor Mark-up	18.00%	\$10,851
Material Mark-up	15.00%	\$4,444
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$11,069
Sales tax (material)	7.75%	\$2,296
Sales tax (equipment)	7.75%	\$5,719
Material Shipping & Handling	2.50%	\$741
Worker's Travel/Subsistence	0.10%	\$60
Subtotal		\$206,988
Contractor General Conditions	12.00%	\$24,839
Subtotal		\$231,827
Earthquake Insurance	0.10%	\$232
Subtotal		\$232,059
Construction Contingency	25.00%	\$58,015
Subtotal		\$290,074
Bldg Risk, Liability Auto Ins.	2.00%	\$5,801
Subtotal		\$295,875
Performance Bond	1.00%	\$2,959
Payment Bond	1.00%	\$2,959
Subtotal		\$301,793
Engineering Fee	10.00%	\$17,181
Environmental Permitting (Lump Sum)	-	\$42,000
Total Estimate		\$360,973



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: Jim Warford Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 3

Estimate Revision Date:: 10/9/2006

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 10/16/2006

PROJECT LOCATION / PROCESS AREA

Project BNB - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project B	NB												
00 0/75	CONOTRUCTION												
02 - SITE	CONSTRUCTION												
02060 -	Site demolition												
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	204	Sqyd	\$4.76	\$969.66	\$0.00	\$0.00	\$3.20	\$651.00	\$7.95 / Sqyd	\$0.00	\$0.00	\$1,620.66
02320 -	Backfill Backfill, dozer backfilling, trench, no compaction, inlet	11000	Cuyd	\$0.71	\$7,810.00	\$0.00	\$0.00	\$1.17	\$12,892.86	\$1.88 / Cuyo	\$0.00	\$0.00	\$20,702.86
	Backilli, dozer backilling, trench, no compaction, inlet	11000	Cuya	\$0.71	\$7,810.00	\$0.00	\$0.00	\$1.17	\$12,892.80	\$1.88 / Cuyo	\$0.00	\$0.00	\$20,702.80
02340 -	Bedding												
	Bedding, crushed stone 3/4" to 1/2", inlet	1467	Cuyd	\$7.64	\$11,207.88	\$20.73	\$30,410.91	\$1.73	\$2,539.04	\$30.1 / Cuyo	\$0.00	\$0.00	\$44,157.83
	Compaction	44000		A4 70	0 40 000 00		\$2.00	A0.47	#5.440.00	00.00.40		A 0.00	004 470 00
	Compaction, trench, walk behind, vib. plate, bedding Compaction, trench, walk behind, vib. plate, subgrade	11000 667	Cuyd Cuyd	\$1.76 \$1.76	\$19,360.00 \$1,173.39	\$0.00 \$0.00	\$0.00 \$0.00	\$0.47 \$0.47	\$5,116.90 \$310.13	\$2.22 / Cuyo \$2.22 / Cuyo			\$24,476.90 \$1,483.52
	Compaction, trench, walk behind, vib. Plate Compaction, trench, walk behind, vib. Plate	11000	Cuyd	\$1.76	\$19,360.00		\$0.00	\$0.47	\$5,116.90				\$24,476.90
	Compaction, training training, them I have	11000	ouyu	ψσ	\$10,000.00	φοισσ	ψ0.00	Ψ0	φο, ο. ο ο	\$2.227 Guya	ψ0.00	Ψοιοο	Ψ2.1,17.0.00
	Excavating, trench												
	Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	17600	Cuyd	\$1.73	\$30,448.00	\$0.00	\$0.00	\$1.30	\$22,942.68	\$3.03 / Cuyo	\$0.00	\$0.00	\$53,390.68
02.400	Din year												
02480 -	Rip-rap, gabions, galv steel mesh boxes, stone filled	104	Cuyd	\$85.11	\$8,851.44	\$42.49	\$4,418.96	\$24.55	\$2 553 20	\$152.15 / Cuyd	\$0.00	\$0.00	\$15,823.60
	Tup Tup, gustorio, guiv steel meen boxee, storie mieu	104	Ouyu	ψου.11	ψ0,001.44	Ψ12.10	ψ+,+10.00	Ψ24.00	Ψ2,000.20	ψ102.107 Ouyu	Ψ0.00	Ψ0.00	ψ10,020.00
02610 - A	Asphalt concrete pavement												
	Asphaltic conc pavement, pavement replacement over trench, 6"	204	Sqyd	\$40.63	\$8,276.74	\$11.42	\$2,326.37	\$3.48	\$708.00	\$55.52 / Sqyc	\$0.00	\$0.00	\$11,311.11
	OITE CONOTRIUCTION Takel				0407.457.44		CO7.450.04		# 50,000,70		# 0.00	# 0.00	£407.444.04
03 - 00	SITE CONSTRUCTION Total NCRETE				\$107,457.11		\$37,156.24		\$52,830.70		\$0.00	\$0.00	\$197,444.04
00 - 00	NONETE												
03150 - 0	Concrete, ready mix												
	Headwall, with apron	5	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyo	\$0.00	\$3,750.00	\$3,750.00
	OONODETE Take				#0.00		#0.00		#0.00		#0.00	*** 750.00	#0.750.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$3,750.00	\$3,750.00
15 - ME	CHANICAL												
	· · · · · · · · · · · · · · · · · · ·												
	Pipe,drng&sewage,concrete				-								
	Piping, drainage & sewage, RCP, class 3, no gaskets, 84" dia	3600	Lnft	\$119.16	\$428,976.00	\$259.70	\$934,920.00	\$40.50	\$145,800.00		\$0.00		\$1,509,696.00
	Piping, water dist, conc pipe, gasket, 84" dia	360	Each	\$2.85	\$131.10	\$30.46	\$1,401.16		\$0.00	\$33.31 / Each	\$0.00	\$0.00	\$1,532.26
15395 -	Cleanouts												
	Cleanouts, flr type, rnd top, xtra hvy dty, 84" pipe size	9	Each	\$2,015.79	\$18,142.11	\$3,049.62	\$27,446.58	\$0.00	\$0.00	\$5065.41 / Each	\$0.00	\$0.00	\$45,588.69
	, , , , , , , , , , , , , , , , , , , ,			-	-	·							•
	MECHANICAL Total				\$447,249.21		\$963,767.74		\$145,800.00		\$0.00	\$0.00	\$1,556,816.95
	Desired DMD To 1				ØEE 4 700 00		£4 000 000 00		Ø400 000 TO		00.00	60.750.00	Ø4 7E0 040 00
	Project BNB Total				\$554,706.32		\$1,000,923.98		\$198,630.70		\$0.00	\$3,750.00	\$1,758,010.99
	Grand Total				\$554,706.32		\$1,000,923.98		\$198,630.70		\$0.00	\$3,750.00	\$1,758,010.99

Category	Percent	Amount
Labor	61.48%	\$554,706
Material	110.93%	\$1,000,924
Equipment	22.01%	\$198,631
Subcontractor	0.00%	\$0
Other	0.42%	\$3,750
Net Costs		\$1,758,011
Labor Mark-up	18.00%	\$99,847
Material Mark-up	15.00%	\$150,139
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$29,795
Sales tax (material)	7.75%	\$77,572
Sales tax (equipment)	7.75%	\$15,394
Material Shipping & Handling	2.50%	\$25,023
Worker's Travel/Subsistence	0.10%	\$555
Subtotal		\$2,156,335
Contractor General Conditions	12.00%	\$258,760
Subtotal	12.0070	\$2,415,095
Earthquake Insurance	0.10%	\$2,415
Subtotal	0.1070	\$2,417,510
Construction Contingency	20.00%	\$483,502
Subtotal	20.0070	\$2,901,012
Bldg Risk, Liability Auto Ins.	2.00%	\$58,020
Subtotal		\$2,959,032
Performance Bond	1.00%	\$29,590
Payment Bond	1.00%	\$29,590
Subtotal		\$3,018,213
Engineering Fee	10.00%	\$175,801
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$3,204,014



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: Sharon Bray Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 03

Estimate Revision Date:: 10/9/2006

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 10/16/2006

PROJECT LOCATION / PROCESS AREA

Project BP - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project													
01 - GE	NERAL REQUIREMENTS												
01200 -	General equipment rental												
	Trench box, 9500 lbs, 8'x 20'	4	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$131.75	\$527.00	\$131.75 / Day	\$0.00	\$0.00	\$527.00
	Trench Plates allowance	1	Mo	\$0.00	\$0.00	\$0.00	\$0.00	\$500.00		\$500 / Mo	\$0.00	\$0.00	\$500.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$1,027.00		\$0.00	\$0.00	\$1,027.00
02 SITE	CONSTRUCTION												
02060 -	Site demolition												
	Site dml, no hauling, pavement removal, bit, 4" to 6" thick	15	Sqyd	\$4.76	\$71.40	\$0.00	\$0.00	\$3.20	\$47.94	\$7.95 / Sqyd	\$0.00	\$0.00	\$119.34
	Asphalt disposal - hauling and disposal fee, 4" thick	15	Sqyd	\$0.89	\$13.35	\$4.30	\$64.50	\$1.20	\$17.93	\$6.38 / Sqyd	\$0.00	\$0.00	\$95.78
02170 -	Saw cutting												
	Saw cutting, asphalt, up to 3" deep	150	Lnft	\$0.78	\$117.00	\$0.15	\$22.50	\$0.40	\$60.70	\$1.33 / Lnft	\$0.00	\$0.00	\$200.20
 	Saw cutting, asphalt, after 3" deep; each addl inch of depth	150	Lnft	\$0.46	\$69.00	\$0.04	\$6.00	\$0.24	\$35.36	\$0.73 / Lnft	\$0.00	\$0.00	\$110.36
02310 -	Fine grade												
	Fine grade under asphalt	15	Sqyd	\$0.77	\$11.55	\$0.00	\$0.00	\$0.16	\$2.46	\$0.93 / Sqyd	\$0.00	\$0.00	\$14.01
02320 -	Backfill												
02320 -	Backfill, dozer backfilling, trench, up to 300' haul, no compaction,	250	Cuyd	\$0.71	\$177.50	\$0.00	\$0.00	\$1.17	\$293.02	\$1.88 / Cuyd	\$0.00	\$0.00	\$470.52
02340	- Bedding												
	Bedding, crushed stone 3/4" to 1/2", outlet	30	Cuyd	\$7.64	\$229.20	\$20.73	\$621.90	\$1.73	\$51.92	\$30.1 / Cuyd	\$0.00	\$0.00	\$903.02
02360	- Compaction												
02000	Compaction, trench, walk behind, vib. plate, subgrade outlet	250	Cuyd	\$1.76	\$440.00	\$0.00	\$0.00	\$0.47	\$116.29	\$2.22 / Cuyd	\$0.00	\$0.00	\$556.29
02450	- Excavating, trench												
	Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac, outlet	250	Cuyd	\$1.73	\$432.50	\$0.00	\$0.00	\$1.30	\$325.98	\$3.03 / Cuyd	\$0.00	\$0.00	\$758.48
02460 -	 Hauling												
	Disposal fee	5	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$525.00	\$525.00
	Hauling, LCY, no loading, 12 CY dump truck, stockpile on site	100	Cuyd	\$0.97	\$97.00	\$0.00	\$0.00	\$2.09	\$209.29	\$3.06 / Cuyd	\$0.00	\$0.00	\$306.29
	Hauling, LCY, no loading, 12 CY dump truck, clear & grub	100	Cuyd	\$0.97		\$0.00	\$0.00	\$2.09		\$3.06 / Cuyd	\$0.00	\$0.00	\$306.28
	Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI RT, 0.4 lds/hr	100	Cuyd	\$7.18		\$3.00	\$300.00	\$15.45			\$0.00	\$0.00	\$2,562.64
	Loading Trucks, F.E. Loader, 3 C.Y, stockpile	100	Cuyd	\$0.66		\$0.00	\$0.00	\$0.99	****	\$1.64 / Cuyd	\$0.00	\$0.00 \$0.00	\$164.57
	Loading Trucks, F.E. Loader, 3 C.Y Loading Trucks, F.E. Loader, 3 C.Y, clear & grub	100 100	Cuyd Cuyd	\$0.66 \$0.52		\$0.00 \$0.00	\$0.00 \$0.00	\$1.13 \$0.99		\$1.79 / Cuyd \$1.5 / Cuyd	\$0.00 \$0.00	\$0.00	\$179.36 \$150.73
	Loading Trucks, F.E. Loader, S.C.T, Clear & grub	100	Cuyu	ψ0.52	ψ32.00	φ0.00	φυ.υυ	φ0.55	φ90.73	\$1.57 Cuyu	φ0.00	φυ.υυ	φ130.73
02470 -	Soil stabilization												
	Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	400	Sqyd	\$0.29	\$116.00	\$1.71	\$684.00	\$0.00	\$0.00	\$2 / Sqyd	\$0.00	\$0.00	\$800.00
02480 -	Rip-rap												
	Rip-rap, gabions, galv steel mesh boxes, stone filled, 36" deep	100	Cuyd	\$67.91	\$6,791.00	\$42.49	\$4,249.00	\$24.56	\$2,456.00	\$134.96 / Cuyd	\$0.00	\$0.00	\$13,496.00
02490 -	Erosion control												
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
02600 -	Base course												
	Base course, large areas, crushed 3/4" stone, compacted to 12"	400	Sqyd	\$0.62	\$248.00	\$10.65	\$4,260.00	\$0.90	\$359.82	\$12.16 / Sqyd	\$0.00	\$0.00	\$4,867.82

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
02610 -	Asphalt concrete pavement												
	Asphaltic conc pavement, pavement replacement over trench, 4" thick	15	Sqyd	\$31.92	\$478.80	\$7.22	\$108.30	\$2.73	\$40.96	\$41.87 / Sqyd	\$0.00	\$0.00	\$628.06
	SITE CONSTRUCTION Total				\$10,291.30		\$10,316.20		\$6,082.25		\$0.00	\$3,139.00	\$29,828.75
03 - CO	NCRETE												
03150	- Concrete, ready mix												
	Headwall, inlet	5	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$3,750.00	\$3,750.00
	Culvert, outlet	30	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$22,500.00	\$22,500.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$26,250.00	\$26,250.00
	Project BP Total				\$10,291.30		\$10,316.20		\$7,109.25			\$29,389.00	\$57,105.75
	Grand Total				\$10,291.30		\$10,316.20		\$7,109.25		\$0.00		\$57,105.75

Category	Percent	Amount
Labor	1.14%	\$10,291
Material	1.14%	\$10,316
Equipment	0.79%	\$7,109
Subcontractor	0.00%	\$0
Other	3.26%	\$29,389
Net Costs		\$57,106
		.
Labor Mark-up	18.00%	\$1,852
Material Mark-up	15.00%	\$1,547
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$1,066
Sales tax (material)	7.75%	\$800
Sales tax (equipment)	7.75%	\$551
Material Shipping & Handling	2.50%	\$258
Worker's Travel/Subsistence	0.10%	\$10
Subtotal		\$63,191
Contractor General Conditions	12.00%	\$7,583
Subtotal	12.0070	\$70,774
Earthquake Insurance	0.10%	\$71
Subtotal	31.070	\$70,844
Construction Contingency	25.00%	\$17,711
Subtotal	20.000 //	\$88,555
Bldg Risk, Liability Auto Ins.	2.00%	\$1,771
Subtotal		\$90,327
Performance Bond	1.00%	\$903
Payment Bond	1.00%	\$903
Subtotal		\$92,133
Engineering Fee	10.00%	\$5,711
Environmental Permitting (Lump Sum)	-	\$17,000
Total Estimate		¢444 044
Total Estimate		\$114,844



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: Sharon Bray Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 11/14/2005

Estimate Revision Number:: 03

Estimate Revision Date:: 10/9/2006

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 10/16/2006

PROJECT LOCATION / PROCESS AREA

Project BQ - Located in Basin B

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project B	3Q												<u>'</u>
02 - SITE	E CONSTRUCTION												
02210 - (Clear and grub												
02210 - 0	Clear & grub, brush, including stumps	0	Acre	\$1,598.62	\$463.60	\$0.00	\$0.00	\$3,351.72	\$972.00	\$4950.34 / Acre	\$0.00	\$0.00	\$1,435.60
	g comp			* .,	Ų AUGUST	70.00	V 0.00	* **,******	****	*	******	70.00	4 1,122121
02310 - I	Fine grade												
	Fine grade, grade subgrade for base course, roadways	1067	Sqyd	\$0.19	\$202.73	\$0.00	\$0.00	\$0.16	\$175.00	\$0.35 / Sqyd	\$0.00	\$0.00	\$377.73
02330 - 1	Backfill, structural												
02330 - 1	Backfill, from stockpile	140	Cuyd	\$0.52	\$72.80	\$0.00	\$0.00	\$0.36	\$50.40	\$0.88 / Cuyd	\$0.00	\$0.00	\$123.20
			,-	*****	V. =:44	70.00	V 0.00	******	*******	Quico, cuju	V	70.00	******
02360 - 0	Compaction												
	Compaction, walk behind, vibrating pl 18" wide, 12" lifts, 4 passes	3465	Cuyd	\$1.76	\$6,098.40	\$0.00	\$0.00	\$0.47	\$1,611.82	\$2.22 / Cuyd		\$0.00	\$7,710.22
	Compaction, walk behind, vibrating pl 18" w, 12" lifts, 4 passes,	119	Cuyd	\$1.76	\$209.44	\$0.00	\$0.00	\$0.47	\$55.36	\$2.22 / Cuyd	\$0.00	\$0.00	\$264.80
02420 - 1	Excavating, structural												
02 120 1	Excavating, structural, mach excav, com earth, hyd backhoe, 2 CY	550	Cuyd	\$4.67	\$2,568.50	\$0.00	\$0.00	\$6.13	\$3,372.60	\$10.8 / Cuyd	\$0.00	\$0.00	\$5,941.10
	5				. ,								
02460 - I	· ·												
	Disposal fee	20	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	*	\$2,100.00	\$2,100.00
	Hauling, LCY, no loading, 12 CY dump truck, stockpile on site	140	Cuyd	\$0.97	\$135.80	\$0.00	\$0.00					\$0.00	\$428.80
	Hauling, LCY, no loading, 12 CY dump truck, clear & grub	237	Cuyd	\$0.97	\$229.89 \$4.422.88	\$0.00 \$3.00	\$0.00					\$0.00 \$0.00	\$725.89
	Hauling, LCY, no loading, 12 c.y. dump truck, 20 MI RT, 0.4 lds/hr Loading Trucks, F.E. Loader, 3 C.Y, stockpile	616 140	Cuyd Cuyd	\$7.18 \$0.66	\$4,422.88 \$92.40	\$3.00	\$1,848.00 \$0.00			\$25.62 / Cuyd \$1.64 / Cuyd		\$0.00	\$15,785.88 \$230.40
	Loading Trucks, F.E. Loader, 3 C.Y, stockpile	616	Cuyd	\$0.66	\$92.40 \$406.56	\$0.00	\$0.00	\$0.99	\$698.27			\$0.00	\$230.40
	Loading Trucks, F.E. Loader, 3 C.Y, clear & grub	237	Cuyd	\$0.52	\$406.56 \$123.24	\$0.00	\$0.00	\$0.99		\$1.79 / Cuyd	\$0.00	\$0.00	\$1,104.83
	Ebading Trucks, F.E. Ebader, 5 C.F., Gear & grab	251	Cuyu	ψ0.52	Ψ123.24	ψ0.00	ψ0.00	ψ0.33	Ψ204.00	ψ1.57 Ouyu	ψ0.00	ψ0.00	ψ337.24
02470 - 3	Soil stabilization												
	Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	290	Sqyd	\$0.29	\$84.10	\$1.71	\$495.90	\$0.00	\$0.00	\$2 / Sqyd	\$0.00	\$0.00	\$580.00
02480 - I	Pin ron												
02400 - 1	Rip-rap, gabions, galv steel mesh boxes, stone filled, 36" deep	100	Cuyd	\$67.91	\$6,791.00	\$42.49	\$4,249.00	\$24.56	\$2 456 00	\$134.96 / Cuyd	\$0.00	\$0.00	\$13,496.00
	Tup rap, gasterio, gair oteer meer bestee, eterio illiea, ee aeep		Ouju	φοιιοι	ψο,ι ο ι ισο	ψ 1.2. 1.0	Ų 1,2 10.00	Ψ21.00	ψ2, 100.00	ψ.σ.ισσγ σαγα	\$0.00	ψο.σσ	ψ10,100.00
02490 - L	Erosion control												
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
00000	0												
02600 - I	Base course	007	0	#0.00	# 446.54	#40.05	Φ7.40C ==	#0.00	# 000 00	£40.40./C	# 0.00	#0.55	60.447.00
	Base course, large areas, crushed 3/4" stone, compacted to 12"	667	Sqyd	\$0.62	\$413.54	\$10.65	\$7,103.55	\$0.90	\$600.00	\$12.16 / Sqyd	\$0.00	\$0.00	\$8,117.09
	SITE CONSTRUCTION Total				\$22,314.88		\$13,696.45		\$20,667.45		\$0.00	\$4,714.00	\$61,392.78
					-								
	D / 100 T / 1				600 044 00		£40,000,45		#00.007.15		00.00	0474460	#04 000 TO
	Project BQ Total				\$22,314.88		\$13,696.45		\$20,667.45		\$0.00	\$4,714.00	\$61,392.78
	Grand Total				\$22,314.88		\$13,696.45		\$20,667.45		\$0.00	\$4,714.00	\$61,392.78

Category	Percent	Amount
Labor	2.47%	\$22,315
Material	1.52%	\$13,696
Equipment	2.29%	\$20,667
Subcontractor	0.00%	\$0
Other	0.52%	\$4,714
Net Costs		\$61,393
Labor Mark-up	18.00%	\$4,017
Material Mark-up	15.00%	\$2,054
Subcontractor Mark-up	5.00%	\$2,054 \$0
Equipment Mark-up	15.00%	\$3,100
Sales tax (material)	7.75%	\$1,061
Sales tax (material) Sales tax (equipment)	7.75%	\$1,602
, , ,	2.50%	
Material Shipping & Handling Worker's Travel/Subsistence	0.10%	\$342 \$22
vvolkel's Travel/Subsistence	0.10%	Φ ΖΖ
Subtotal		\$73,592
Contractor General Conditions	12.00%	\$8,831
Subtotal		\$82,423
Earthquake Insurance	0.10%	\$82
Subtotal		\$82,505
Construction Contingency	25.00%	\$20,626
Subtotal		\$103,132
Bldg Risk, Liability Auto Ins.	2.00%	\$2,063
Subtotal		\$105,194
Performance Bond	1.00%	\$1,052
Payment Bond	1.00%	\$1,052
Subtotal		\$107,298
Engineering Fee	10.00%	\$6,139
Environmental Permitting (Lump Sum)	-	\$7,000
Total Estimate		\$120,438
I VIAI ESIIIIAIE		ֆ เ∠∪,438

Project Costs

Basin C



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: Sharon Bray Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 5/15/2006

Estimate Revision Number:: 03

Estimate Revision Date:: 10/9/2006

BC Project Manager:: Chris Herencia Estimate QA/QC Reviewer:: Bob Ferguson

Estimate QA/QC Date:: 10/16/2006

PROJECT LOCATION / PROCESS AREA

Project C1 - Located in Basin C

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project C	71												
01 - GEI	IERAL REQUIREMENTS												
OT - OLI	VELVAE NE QUINEIVITO												
01210 -	Lifting and hoisting equi												
	Rent crane truck mounted, hydraulic, 55 ton	45	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$900.00	\$40,500.00	\$1801.6 / Day	\$40,572.00	\$0.00	\$81,072.00
02 - SITI	CONSTRUCTION												
02060	Site demolition												
02000 -	Site dml, conc7" to 24" thick, rod reinforced	93	Cuyd	\$87.50	\$8,137.50	\$0.00	\$0.00	\$58.74	\$5,462,82	\$146.24 / Cuyd	\$0.00	\$0.00	\$13,600.32
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	309	Cuyd	\$5.41	\$1,671.69	\$0.00	\$0.00	\$9.45	\$2,920.73			\$0.00	\$4,592.42
	Loading Trucks, F.E. Loader, 3 C.Y	309	Cuyd	\$0.66	\$203.94	\$0.00	\$0.00	\$1.13	\$350.27	\$1.79 / Cuyd		\$0.00	\$554.21
	Disposal fee	20	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$2,100.00	\$2,100.00
02280	Sheet piling												
	Sheet piling, steel, no wales, 15' excav., drive, extract & salvage	2,700	Sqft	\$6.07	\$16,389.00	\$5.05	\$13,635.00	\$4.59	\$12,400.00	\$15.71 / Sqft	\$0.00	\$0.00	\$42,424.00
00000	Pagidill												
02320 - 1	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	186	Cuyd	\$0.71	\$132.06	\$0.00	\$0.00	\$1.17	\$218.01	\$1.88 / Cuyd	\$0.00	\$0.00	\$350.07
	Dackini, dozer backining, trenen, up to 500 maul, no compaction	100	Ouyu	Ψ0.71	ψ132.00	ψ0.00	ψ0.00	Ψ1.17	Ψ210.01	ψ1.007 Ouyu	ψ0.00	ψ0.00	ψ330.07
02340 - 1	Bedding												
	Bedding, crushed stone 3/4" to 1/2"	63	Cuyd	\$8.02	\$505.26	\$32.00	\$2,016.00	\$1.83	\$115.00	\$41.85 / Cuyd	\$0.00	\$0.00	\$2,636.26
02360 -	Compaction								*****				
	Compaction, walk behind, vibrating plate 18" wide, subgrade	63	Cuyd	\$2.63	\$165.69	\$0.00	\$0.00	\$0.70	\$44.10	\$3.33 / Cuyd		\$0.00	\$209.79
	Compaction, walk behind, vibrating plate 18" wide, bedding Compaction, walk behind, vibrating plate 18" wide, backfill	63 186	Cuyd	\$2.63 \$2.63	\$165.69 \$489.18	\$0.00 \$0.00	\$0.00 \$0.00	\$0.70 \$0.70	\$44.10 \$130.20	\$3.33 / Cuyd \$3.33 / Cuyd		\$0.00 \$0.00	\$209.79 \$619.38
	Compaction, walk benind, vibrating plate 18 wide, backfill Compaction, riding, vibrating roller, 6" lifts, fill	9,827	Cuyd Cuyd	\$2.03	\$3,537.72	\$0.00	\$0.00	\$0.70	\$2,783.00	\$3.33 / Cuyd \$0.64 / Cuyd		\$0.00	\$6,320.72
	Compaction, namy, vibrating roller, or lines, illi	3,027	Ouyu	ψ0.50	ψυ,υστ.τ2	ψ0.00	ψ0.00	ψ0.20	Ψ2,703.00	ψ0.047 Ouyu	ψ0.00	ψ0.00	Ψ0,520.72
02420 - 1	Excavating, structural												
	Excavating, structural, mach excav, com earth, hyd backhoe, 2 CY bkt	309	Cuyd	\$4.90	\$1,514.10	\$0.00	\$0.00	\$6.44	\$1,989.96	\$11.34 / Cuyd	\$0.00	\$0.00	\$3,504.06
02430 - 1													
	Fill, spread dumped material, by dozer, no compaction	9,827	Cuyd	\$0.68	\$6,682.36	\$0.00	\$0.00	\$1.11	\$10,889.38	\$1.79 / Cuyd		\$0.00	\$17,571.74
	Fill, spread dumped material, by dozer, no compaction, berm Granular fill	74 9,827	Cuyd	\$0.68 \$0.00	\$50.32 \$0.00	\$0.00 \$14.20	\$0.00 \$139,543.40	\$1.11 \$0.00	\$82.00 \$0.00	\$1.79 / Cuyd		\$0.00 \$0.00	\$132.32 \$139,543.40
	Granular fill, berm	9,827	Cuyd Cuyd	\$0.00	\$0.00	\$14.20 \$14.20	\$1,050.80	\$0.00	\$0.00	\$14.2 / Cuyd \$14.2 / Cuyd		\$0.00	\$1,050.80
	Crandiai IIII, Beriii	, -	Ouyu	Ψ0.00	ψ0.00	Ψ14.20	ψ1,030.00	ψ0.00	ψ0.00	ψ14.27 Ouyu	ψ0.00	ψ0.00	Ψ1,030.00
02460 - 1	Hauling												
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	309	Cuyd	\$5.68	\$1,755.12	\$0.00	\$0.00	\$9.92	\$3,066.74	\$15.6 / Cuyd	\$0.00	\$0.00	\$4,821.86
	Loading Trucks, F.E. Loader, 3 C.Y	309	Cuyd	\$0.69	\$213.21	\$0.00	\$0.00	\$1.19	\$368.81	\$1.88 / Cuyd	\$0.00	\$0.00	\$582.02
	Disposal fee	20	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk		\$2,100.00	\$2,100.00
	Hauling, LCY, no loading, 20 c.y dump truck, 30 MI RT, 0.33 lds/hr, concrete	93	Cuyd	\$5.68	\$528.24	\$0.00	\$0.00	\$9.92	\$923.00	\$15.6 / Cuyd		\$0.00	\$1,451.24
	Loading Trucks, F.E. Loader, 3 C.Y., concrete	93	Cuyd	\$0.69	\$64.17	\$0.00	\$0.00	\$1.19	\$111.00	\$1.88 / Cuyd	\$0.00	\$0.00	\$175.17
02480 - 1	Pin-ran												
02400 - 1	Rip-rap, mach placed for slp protec, 18" min thick. not grouted	1,334	Sqyd	\$53.95	\$71,969.30	\$15.85	\$21,143.90	\$17.90	\$23,874.60	\$87.7 / Sqyd	\$0.00	\$0.00	\$116.987.80
	Tap tap, mastr placed for sip proces, to fillit tillor. Het grouted	1,004	Эчуч	ψυυ.συ	ψε 1,000.00	ψ10.00	Ψ=1,170.90	ψ17.30	Ψ20,017.00	ψοτ.τ / Oqyu	ψ0.00	ψ0.00	ψ110,301.00
02600 - 1	Base course												
	Base course, large areas, crushed 3/4" stone, compacted to 60" deep	378	Sqyd	\$0.84	\$317.52	\$10.75	\$4,063.50	\$1.07	\$404.46	\$12.66 / Sqyd	\$0.00	\$0.00	\$4,785.48
02640 - 1	Lines on pav't												
	Painting lines, thermoplastic, white or yellow, 6" wide	204	Lnft	\$0.14	\$28.56	\$1.07	\$218.28	\$0.08	\$16.32	\$0.14 / Lnft	\$0.00	\$0.00	\$263.16
]		

Item	Item Description	Quantity	Unit	Labor	Labor Amount	Materials	Materials	Equip	Equip Amount	Total	Subs Amount	Other Amount	Grand
00000	Oidentille dei en e 0 motion	•		\$/Unit		\$/Unit	Amount	\$/Unit		\$/Unit			Total
02660 - 1	Sidewlks, drivwys, & patios Sidewalks, conc, 3000 PSI, CIP w/ 6x6 mesh, broom fin, no basem 4" T	544	Sqft	\$1.87	\$1,017.28	\$1.45	\$788.80	\$0.00	\$0.00	\$3.32 / Sqft	\$0.00	\$0.00	\$1,806.08
	Sidewalks, conc, 3000 PSI, CIP W 6x6 mesh, broom fin, no basem 4 1 Sidewalks, conc, 3000 PSI, for bank run gravel base, 4" thick, add	544	Sqit	\$0.46	\$1,017.28	\$0.42			\$0.00 \$20.13	\$3.32 / Sqrt	\$0.00	\$0.00	\$1,806.08
	Sidewarks, conc, 3000 PSI, for bank run graver base, 4 - tnick, add	544	Sqii	\$0.46	\$250.24	\$0.42	\$228.48	\$0.04	\$20.13	\$0.92 / Sqit	\$0.00	\$0.00	\$495.50
02840 -	Landscaping												
	Erosion Control Allowance	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$30000 / Lsum	\$0.00	\$30,000.00	\$30,000.00
	Landscaping Allowance	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$30000 / Lsum	\$30,000.00	\$0.00	\$30,000.00
	Traffic Control Allowance	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$30,000.00	\$30,000.00
				,				,					
	SITE CONSTRUCTION Total				\$115,788.15		\$182,688.16		\$106,714.62		\$70,572.00	\$64,200.00	\$539,962.93
03 - COI	NCRETE												
										·			·
	Concrete, ready mix												
	5-12'x12' RCB Culverts	403	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$950 / Cuyd	\$0.00	\$382,850.00	\$382,850.00
	Headwall, inlet	21	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$950 / Cuyd	\$0.00	\$19,950.00	\$19,950.00
	Headwall, outlet	28	Cuyd	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$950 / Cuyd		\$26,600.00	\$26,600.00
	Wall, bridge	163	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$950 / Cuyd	\$0.00	\$154,850.00	\$154,850.00
	Footing	10	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$950 / Cuyd	\$0.00	\$9,500.00	\$9,500.00
	Elevated slab	28	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$950 / Cuyd	\$0.00	\$26,600.00	\$26,600.00
	Wingwall	21	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$950 / Cuyd	\$0.00	\$19,950.00	\$19,950.00
	Slab on Grade	28	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$950 / Cuyd	\$0.00	\$26,600.00	\$26,600.00
	Slab on Grade for roadway	202	Cuyd	\$0.00	\$0.00	\$125.00	\$25,250.00	\$0.00	\$0.00	\$1075 / Cuyd	\$0.00	\$191,900.00	\$217,150.00
	CONCRETE Total				\$0.00		\$25,250.00		\$0.00		\$0.00	\$858,800.00	\$884,050.00
05 145													
05 - MET	ALS												
05000	Railings, industrial												
05060 - 1	Railings, industrial Railing, pipe, aluminum, 3 rail, clear anodized	272	Lnft	\$14.38	\$3.911.36	\$45.95	\$12,498,40	\$0.92	\$251.06	\$0.06 / Lnft	\$0.00	\$0.00	\$16.660.82
	Railing, pipe, aluminum, 3 fall, clear anodized	212	Lnit	\$14.36	\$3,911.30	\$45.95	\$12,498.40	\$0.92	\$251.06	\$0.06 / Lnit	\$0.00	\$0.00	\$10,000.82
	METALS Total				\$3,911.36		\$12,498.40		\$251.06		\$0.00	\$0.00	\$16,660.82
	INICIAES TOTAL				φ3,911.30		\$12,490.40		φ231.00		φυ.υυ	φ0.00	\$10,000.02
07 - THE	ERMAL/MOIST PROTECTION												
07 11112	THE PROPERTY OF THE PROPERTY O												
07100 -	Building paper												
	Building paper, polyethylene vapor barrier, std, .010" thick, berm	28	Cuyd	\$10.95	\$306.60	\$5.35	\$149.80	\$0.00	\$0.00	\$16.3 / Cuyd	\$0.00	\$0.00	\$456.40
	VI 1 1, 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		, u	Ţ.I.00	7223.00	\$2,00	Ţ 5100	Ţ2.00	\$3.00	,	+0.00	\$2.00	Ţ.20110
	THERMAL/MOIST PROTECTION Total				\$306.60		\$149.80		\$0.00		\$0.00	\$0.00	\$456.40
											,	,	
	Project C1 Total				\$115,788.15		\$207,938.16		\$106,714.62		\$70,572.00	\$923,000.00	\$1,441,130.15
	,												
	Grand Total				\$115,788.15		\$207,938.16		\$106,714.62		\$70,572.00	\$923,000.00	\$1,424,012.93

Category	Percent	Amount
Labor	8.13%	\$115,788
Material	14.60%	\$207,938
Equipment	7.49%	\$106,715
Subcontractor	4.96%	\$70,572
Other	64.82%	\$923,000
Net Costs		\$1,424,013
Labor Mark-up	18.00%	\$20,842
Material Mark-up	15.00%	\$31,191
Subcontractor Mark-up	5.00%	\$3,529
Equipment Mark-up	15.00%	\$16,007
Sales tax (material)	7.75%	\$16,115
Sales tax (equipment)	7.75%	\$8,270
Material Shipping & Handling	2.50%	\$5,198
Worker's Travel/Subsistence	0.10%	\$116
Subtotal		\$1,525,281
Contractor General Conditions	12.00%	\$183,034
Subtotal		\$1,708,315
Earthquake Insurance	0.10%	\$1,708
Subtotal		\$1,710,023
Construction Contingency	35.00%	\$598,508
Subtotal		\$2,308,531
Bldg Risk, Liability Auto Ins.	2.00%	\$46,171
Subtotal		\$2,354,702
Performance Bond	1.00%	\$23,547
Payment Bond	1.00%	\$23,547
Subtotal		\$2,401,796
Engineering Fee	10.00%	\$142,401
Environ Permitting/Monitoring (L.S.)	-	\$550,000
Total Estimate		\$3,094,197



Project Number:: 128290

Client:: City of Carlsbad ator(s):: Jim Warford

Estimator(s):: Jim Warford Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 03

Estimate Revision Date:: 10/9/2006

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 10/16/2006

PROJECT LOCATION / PROCESS AREA

Project C2 - Located in Basin C

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project C	C2												
02 - SITI	E CONSTRUCTION												
02060	Cita demolition												
02060 -	Site demolition Site dml, conc7" to 24" thick, rod reinforced	10	Cuyd	\$83.33	\$833.30	\$0.00	\$0.00	\$55.96	\$550.57	\$139.28 / Cuyd	\$0.00	\$0.00	\$1,392.87
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	10	Cuyd	\$5.41	\$54.10	\$0.00	\$0.00	\$9.45	\$94.52				\$1,392.87
	Loading Trucks, F.E. Loader, 3 C.Y	10	Cuyd	\$0.66	\$6.60	\$0.00	\$0.00	\$1.13	\$11.34	\$1.79 / Cuyd			\$17.94
	Disposal fee	10	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.79 / Cdyd			\$105.00
	Disposal res	•	1110	ψ0.00	ψ0.00	ψ0.00	ψ0.00	ψ0.00	ψ0.00	Ψ1007111	ψ0.00	ψ100.00	ψ100.00
02280 -	Sheet piling												
	Sheet piling, steel, no wales, 15' excav., drive, extract & salvage	1,500	Sqft	\$12.75	\$19,125.00	\$7.61	\$11,415.00	\$9.64	\$14,466.67	\$30 / Sqft	\$0.00	\$0.00	\$45,006.67
	, , , , , , , , , , , , , , , , , , ,	,		*		,	, , , , , , , , , , , , , , , , , , , ,	***	, ,		,	, , , , ,	
02320 -	Backfill												
	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	347	Cuyd	\$0.71	\$246.37	\$0.00	\$0.00	\$1.17	\$406.71	\$1.88 / Cuyd	\$0.00	\$0.00	\$653.08
02340 -	Bedding												
	Bedding, crushed stone 3/4" to 1/2"	52	Cuyd	\$7.64	\$397.28	\$20.73	\$1,077.96	\$1.73	\$90.00	\$30.1 / Cuyd	\$0.00	\$0.00	\$1,565.24
02360 -	Compaction												
	Compaction, walk behind, vibrating plate 18" wide, subgrade	33	Cuyd	\$1.76	\$58.08	\$0.00	\$0.00	\$0.47	\$15.35	\$2.22 / Cuyd			\$73.43
	Compaction, walk behind, vibrating plate 18" wide, bedding	65	Cuyd	\$1.76	\$114.40	\$0.00	\$0.00	\$0.47	\$30.24	\$2.22 / Cuyd			\$144.64
	Compaction, walk behind, vibrating plate 18" wide, backfill	347	Cuyd	\$1.76	\$610.72	\$0.00	\$0.00	\$0.47	\$161.41	\$2.22 / Cuyd	\$0.00	\$0.00	\$772.13
02420	Excavating, structural												
02420 -	Excavating, structural, mach excav, com earth, hyd backhoe, 1-1/2 CY b	640	Cuyd	\$6.48	\$4,147.20	\$0.00	\$0.00	\$4.89	\$3,129.87	\$11.37 / Cuyd	\$0.00	\$0.00	\$7,277.07
	Excavaling, Structural, mach excav, com earth, myd backnoe, 1-1/2 CT b	040	Cuyu	φυ.40	φ4,147.20	\$0.00	φυ.υυ	ψ4.03	ψ3,129.07	\$11.37 / Cuyu	φυ.υς	φυ.υυ	Ψ1,211.01
02460 -	Hauling												
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	293	Cuyd	\$5.41	\$1,585.13	\$0.00	\$0.00	\$9.45	\$2,769.50	\$14.86 / Cuyd	\$0.00	\$0.00	\$4,354.63
	Loading Trucks, F.E. Loader, 3 C.Y	293	Cuyd	\$0.66	\$193.38	\$0.00	\$0.00	\$1.13	\$332.13	\$1.79 / Cuyd			\$525.51
	Disposal fee	15	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk		\$1,575.00	\$1,575.00
					,	•		•	·	•	·		
02840 -	Landscaping												
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4878 / Lsum	\$0.00	\$4,878.00	\$4,878.00
	SITE CONSTRUCTION Total				\$27,371.56		\$12,492.96		\$22,067.31		\$0.00	\$6,558.00	\$68,489.83
03 - COI	NCRETE												
02450	Conservato records mais												
03150 -	Concrete, ready mix 4'x10' RCB Culvert	170	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$127,500.00	\$127,500.00
	Headwall, inlet	170	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 \$0.00	\$750 / Cuyd		. ,	\$127,500.00
	Headwall, outlet	5	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd		4 - 7	\$3,750.00
	i loudwan, odliet	3	Ouyu	φυ.υυ	φυ.υυ	φυ.υυ	φυ.υυ	φυ.υυ	φυ.υυ	ψ130 / Cuyu	φυ.υι	ψ3,730.00	φ3,730.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$135,000.00	\$135,000.00
	CONCRETE TOTAL		+		ψυ.υυ		Ψ0.00		Ψ0.00		φυ.υα	Ψ100,000.00	ψ100,000.00
	Project C2 Total				\$27,371.56		\$12,492.96		\$22,067.31		\$0.00	\$141,558.00	\$203,489.83
	1.13/001.02.101.01				+= , ; 0,,,,00		ţ: <u></u> ,:02.00		Ţ_ <u>_</u> ,0001		\$3.00	\$111,000.00	+ _00, .00.00
	Grand Total				\$27,371.56		\$12,492.96		\$22,067.31		\$0.00	\$141,558.00	\$203,489.83

Category	Percent	Amount
Labor	13.45%	\$27,372
Material	6.14%	\$12,493
Equipment	10.84%	\$22,067
Subcontractor	0.00%	\$0
Other	69.57%	\$141,558
Net Costs		\$203,490
Labor Mark-up	18.00%	\$4,927
Material Mark-up	15.00%	\$1,874
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$3,310
Sales tax (material)	7.75%	\$968
Sales tax (equipment)	7.75%	\$1,710
Material Shipping & Handling	2.50%	\$312
Worker's Travel/Subsistence	0.10%	\$27
Subtotal		\$216,619
Contractor General Conditions	12.00%	\$25,994
Subtotal		\$242,613
Earthquake Insurance	0.10%	\$243
Subtotal		\$242,856
Construction Contingency	25.00%	\$60,714
Subtotal		\$303,570
Bldg Risk, Liability Auto Ins.	2.00%	\$6,071
Subtotal		\$309,641
Performance Bond	1.00%	\$3,096
Payment Bond	1.00%	\$3,096
Subtotal		\$315,834
Engineering Fee	10.00%	\$20,349
Environ Permitting/Monitoring (L.S.)	-	\$300,000
Total Estimate		\$636,183



Project Number:: 128290

Client:: City of Carlsbad ator(s):: Sharon Bray

Estimator(s):: Sharon Bray Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 11/14/2005

Estimate Revision Number:: 03

Estimate Revision Date:: 10/9/2006

BC Project Manager:: Chris Herencia
Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date:: 10/16/2006

PROJECT LOCATION / PROCESS AREA

Project CA - Located in Basin C

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project C	CA												
02 - SITI	E CONSTRUCTION												
02320	 - Backfill												
02320	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	100	Cuyd	\$0.71	\$71.00	\$0.00	\$0.00	\$1.17	\$117.21	\$1.88 / Cuyd	\$0.00	\$0.00	\$188.21
	Sacram, accordant superior ap to coo man, no companion	.00	Cuju	ψο	ψ. 1.00	ψο.σσ	ψ0.00	Ψ	Ų <u>2</u> .	ψ1.007 Guy	ψ0.00	ψ0.00	Ų.00.Z.
02360 -	- Compaction												
	Compaction, walk behind, vibrating plate 18" wide, subgrade	50	Cuyd	\$1.76	\$88.00	\$0.00	\$0.00	\$0.47		\$2.22 / Cuyd			\$111.26
	Compaction, walk behind, vibrating plate 18" wide, bedding	377	Cuyd	\$1.76	\$663.52	\$0.00	\$0.00	\$0.47	\$175.37	\$2.22 / Cuyd	\$0.00	\$0.00	\$838.89
00.400	Francis (in a structural												
02420 -	- Excavating, structural Excavating, structural, mach excav, com earth, hyd backhoe, 1-1/2 CY b	377	Cuyd	\$6.48	\$2,442.96	\$0.00	\$0.00	\$4.89	\$1,843.69	\$11.37 / Cuyd	\$0.00	\$0.00	\$4,286.65
	Excavaling, Structural, mach excav, com earth, myd backnoe, 1-1/2 C f b	311	Cuyu	φ0.40	\$2,442.96	\$0.00	\$0.00	Ф4.09	\$1,043.09	\$11.37 / Cuyu	φυ.υυ	\$0.00	Φ4,200.00
02460 -	- Hauling												
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	600	Cuyd	\$5.41	\$3,246.00	\$0.00	\$0.00	\$9.45	\$5,671.33	\$14.86 / Cuyd	\$0.00	\$0.00	\$8,917.33
	Loading Trucks, F.E. Loader, 3 C.Y	600	Cuyd	\$0.66	\$396.00	\$0.00	\$0.00	\$1.13	\$680.14	\$1.79 / Cuyd	\$0.00	\$0.00	\$1,076.14
	SITE CONSTRUCTION Total				\$6,907.48		\$0.00		\$8,510.99		\$0.00	\$0.00	\$15,418.47
03 - COI	NCRETE												
03000	 - Forms place, slab grade												
03090 -	Forms in place, SOG, edge forms, over 12", wood	1.800	Sfca	\$4.31	\$7,758.00	\$2.57	\$4.626.00	\$0.00	\$0.00	\$6.88 / Sfca	\$0.00	\$0.00	\$12,384.00
	rome in place, ee e, eage terme, ever 12 ; need	1,000	0.00	ψ	ψ1,100.00	Ψ2.0.	ψ.,ο20.00	ψ0.00	φσ.σσ	ψοίου / Οίου	ψ0.00	ψ0.00	ψ.2,0000
03110 -	- Forms in place, walls												
	Forms in place, walls, job built plyform, to 8' high, below gr	8,400	Sfca	\$6.35	\$53,340.00	\$3.25	\$27,300.00	\$0.00	\$0.00	\$9.6 / Sfca	\$0.00	\$0.00	\$80,640.00
	- Welded wire fabric												
	Welded wire fabric, 10/10 gage, SOG	18 84	Csf Csf	\$36.61	\$658.98	\$29.41	\$529.38	\$0.00	*	\$66.02 / Cst	*		\$1,188.36
	Welded wire fabric, 10/10 gage, Walls	84	CSI	\$36.61	\$3,075.24	\$29.41	\$2,470.44	\$0.00	\$0.00	\$66.02 / Cst	\$0.00	\$0.00	\$5,545.68
03150 -	- Concrete, ready mix												
00.00	Concrete, ready mix, regular weight, 4000 psi	300	Cuyd	\$0.00	\$0.00	\$120.00	\$36,000.00	\$0.00	\$0.00	\$120 / Cuyd	\$0.00	\$0.00	\$36,000.00
	, , , , , , , , , , , , , , , , , , ,		,-	*	•	•		*	, , , , ,	, , , , , , , , ,	•	,	***************************************
03170 -	- Placing concrete												
	Placing conc, incl vib, slab on grade, 6" thick, pumped	34	Cuyd	\$15.89	\$540.26	\$0.00	\$0.00	\$5.08					\$713.02
	Placing conc, incl vib, walls, 8" thick, pumped	160	Cuyd	\$29.41	\$4,705.60	\$0.00	\$0.00	\$9.42	\$1,507.03	\$38.82 / Cuyd	\$0.00	\$0.00	\$6,212.63
02100	- Finishing floors										1		
03160 -	Finishing slabs, break ties, forms & patch voids	1,800	Sqft	\$1.04	\$1,872.00	\$0.03	\$54.00	\$0.00	\$0.00	\$1.07 / Sqft	\$0.00	\$0.00	\$1,926.00
	Finishing floors, monolithic, machine trowel, for finish floor	1,800	Sqft	\$0.60	\$1,080.00	\$0.00	\$0.00	\$0.00		\$0.6 / Sqf			\$1,080.00
	J,	.,230		Ţ1.00	Ţ:,;±53.00	Ţ1.00	\$3.00	Ţ2.00	\$0.00	+ oq.	\$0.00	Ţ5.00	Ţ.,±30.00
03190 -	- Finishing walls												
	Finishing slabs, break ties, forms & patch voids	8,400	Sqft	\$1.04	\$8,736.00	\$0.03	\$252.00	\$0.00		\$1.07 / Sqft			\$8,988.00
	Finishing walls, carborundum rub, wet rub	8,400	Sqft	\$1.90	\$15,960.00	\$0.03	\$252.00	\$0.00	\$0.00	\$1.93 / Sqft	\$0.00	\$0.00	\$16,212.00
-	MECHANICAL Trial		-		#07 700 00		P74 400 00		£4.670.70		# 0.00	#C 00	£470.000.00
	MECHANICAL Total		+		\$97,726.08		\$71,483.82		\$1,679.78		\$0.00	\$0.00	\$170,889.68
	Project CA Total				\$104,633.56		\$71,483.82		\$10,190.77		\$0.00	\$0.00	\$186,308.15
	Troject OA Total				ψ104,000.00		ψε 1,400.02		ψ10,100.77		Ψ0.00	ψ0.00	ψ100,000.TC
	Grand Total				\$104,633.56		\$71,483.82		\$10,190.77		\$0.00	\$0.00	\$186,308.15

Category	Percent	Amount
Labor	56.16%	\$104,634
Material	38.37%	\$71,484
Equipment	5.47%	\$10,191
Subcontractor	0.00%	\$0
Other	0.00%	\$0
Net Costs		\$186,308
Labor Mark-up	18.00%	\$18,834
Material Mark-up	15.00%	\$10,723
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$1,529
Sales tax (material)	7.75%	\$5,540
Sales tax (equipment)	7.75%	\$790
Material Shipping & Handling	2.50%	\$1,787
Worker's Travel/Subsistence	0.10%	\$105
Subtotal		\$225,615
Contractor General Conditions	12.00%	\$27,074
Subtotal		\$252,689
Earthquake Insurance	0.10%	\$253
Subtotal		\$252,941
Construction Contingency	25.00%	\$63,235
Subtotal		\$316,177
Bldg Risk, Liability Auto Ins.	2.00%	\$6,324
Subtotal		\$322,500
Performance Bond	1.00%	\$3,225
Payment Bond	1.00%	\$3,225
Subtotal		\$328,950
Engineering Fee	10.00%	\$18,631
Environ Permitting/Monitoring (L.S.)	-	\$174,000
Total Estimate		\$521,581

Project Costs

Basin D



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: Jim Warford

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 03

Estimate Revision Date:: 5/24/2006

BC Project Manager:: Chris Herencia Estimate QA/QC Reviewer:: Bob Ferguson

Estimate QA/QC Date::

PROJECT LOCATION / PROCESS AREA

Project DBA

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project [DBA												
01 - GFI	NERAL REQUIREMENTS												
OT - OLI	VEINE REGOINEMENTS												
01200 -	General equipment rental												
	Trench box, 9500 lbs, 8'x 20'	1	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$131.75	\$131.75	\$131.75 / Day	\$0.00	\$0.00	\$131.75
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$131.75		\$0.00	\$0.00	\$131.75
00 CIT	E CONSTRUCTION												
02 - 311	E CONSTRUCTION												
02020 -	Underground marking tape												
02020	Underground tape, detectable aluminum, 2"	4	Clf	\$2.34	\$8.42	\$3.06	\$11.02	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$19.44
	The state of the s		-	4-10	70	70.00	******	*****	V 0.00	44	40.00	70.00	*****
02060 -	Site demolition												\$0.00
	Site dml, no hauling, pavement removal, bit, 4" thk	130	Sqyd	\$4.76	\$618.80	\$0.00	\$0.00	\$3.20	\$415.44	\$7.95 / Sqyd	\$0.00	\$0.00	\$1,034.24
	Asphalt disposal - hauling and disposal fee, 4" thick	130	Sqyd	\$0.89		\$4.30	\$559.00	\$1.20				\$0.00	\$830.05
										.,			
02170 -	Saw cutting												
	Saw cutting, asphalt, up to 3" deep	720	Lnft	\$0.78		\$0.15	\$108.00	\$0.40	\$291.38	\$1.33 / Lnft		\$0.00	\$960.98
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	720	Lnft	\$0.46	\$331.20	\$0.04	\$28.80	\$0.24	\$169.75	\$0.73 / Lnft	\$0.00	\$0.00	\$529.75
02320 -	De al-Cil												
02320 -		444	C	₾ 0.74	CO4E EO	\$0.00	CO.00	C4 47	¢500.07	¢4.00 / Cd	\$0.00	\$0.00	#026.46
	Backfill, dozer backfilling, trench, up to 300' haul, no compaction	444	Cuyd	\$0.71	\$315.52	\$0.00	\$0.00	\$1.17	\$520.87	\$1.88 / Cuyd	\$0.00	\$0.00	\$836.40
02340 -	Bedding												
02340 -	Bedding, crushed stone 3/4" to 1/2"	265	Cuyd	\$7.64	\$2,024.60	\$20.73	\$5,493.45	\$1.73	\$458.65	\$30.1 / Cuyd	\$0.00	\$0.00	\$7,976.70
	podaling, crashed stone of the 1/2	200	Ouju	ψ1.01	ψ <u>2,</u> σ <u>2</u> σσ	\$20.70	ψο, ισσ. ισ	ψσ	ψ100.00	φσσ, σαγα	ψ0.00	ψ0.00	ψ.,σ.σ
02360 -	Compaction												
	Compaction, trench, walk behind, vib. plate, bedding	228	Cuyd	\$1.76	\$401.10	\$0.00	\$0.00	\$0.47	\$106.01	\$2.22 / Cuyd	\$0.00	\$0.00	\$507.12
	Compaction, trench, walk behind, vib. plate, subgrade	37	Cuyd	\$1.76	\$64.59	\$0.00	\$0.00	\$0.47	\$17.07	\$2.22 / Cuyd	\$0.00	\$0.00	\$81.66
	Compaction, trench, walk behind, vib. plate, backfill	400	Cuyd	\$1.76	\$704.00	\$0.00	\$0.00	\$0.47	\$186.07	\$2.22 / Cuyd	\$0.00	\$0.00	\$890.07
02450 -	Excavating, trench												
	Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	693	Cuyd	\$1.73	\$1,199.41	\$0.00	\$0.00	\$1.30	\$903.76	\$3.03 / Cuyd	\$0.00	\$0.00	\$2,103.17
00.400	Live dieses												
02460 -	Hauling Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	422	Cuyd	\$5.41	\$2,284.10	\$0.00	\$0.00	\$9.45	\$3,990.73	\$14.86 / Cuyd	\$0.00	\$0.00	\$6,274.83
	Loading Trucks, F.E. Loader, 3 C.Y	422	Cuyd	\$0.66		\$0.00	\$0.00	\$1.13				\$0.00	\$757.24
	Loading Trucks, F.E. Loader, 5 C.T	722	Ouyu	ψ0.00	Ψ270.03	Ψ0.00	ψ0.00	ψ1.10	ψ+10.55	ψ1.737 Ouyu	ψ0.00	ψ0.00	Ψ131.2-
02570 -	Catch basins or manholes												
	Junction structure	2	Each	\$619.52	\$1,239.04	\$5,000.00	\$10,000.00	\$0.00	\$0.00	\$5619.52 / Each	\$0.00	\$0.00	\$11,239.04
				*	, ,	, , , ,	, ,,,,,,,,	*	,		,	,	, ,
02600 -	Base course												
	Base course, large areas, crushed 3/4" stone, compacted to 9" deep	130	Sqyd	\$0.73	\$94.90	\$6.88	\$894.40	\$0.93	\$121.00	\$8.54 / Sqyd	\$0.00	\$0.00	\$1,110.30
02610 -	Asphalt concrete pavement												
	Asphaltic conc pavement, pavement replacement over trench, 4"	130	Sqyd	\$31.92	\$4,149.60	\$7.22	\$938.60	\$2.73	\$354.95	\$41.87 / Sqyd	\$0.00	\$0.00	\$5,443.15
02900 -	Pot Holing												
	Pot Holing - pipe lines	4	Each	\$222.90	\$891.60	\$0.00	\$0.00	\$28.21	\$112.86	\$251.11 / Each	\$0.00	\$0.00	\$1,004.46
	SITE CONSTRUCTION Total				\$15,282.85		\$18,033.27	-	\$8,282.49		\$0.00	\$0.00	\$41,598.60

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
15 - MEG	CHANICAL												
15090 - 1	Pipe,drng&sewage,concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 30" dia	360	Lnft	\$30.95	\$11,142.00	\$22.96	\$8,265.60	\$10.27	\$3,697.20	\$64.18 / Lnft	\$0.00	\$0.00	\$23,104.80
15395 -	Cleanouts												
	Cleanouts, flr type, rnd top, xtra hvy dty, 30" pipe size	2	Each	\$719.92	\$1,439.84	\$1,090.65	\$2,181.30	\$0.00	\$0.00	\$1810.57 / Each	\$0.00	\$0.00	\$3,621.14
	MECHANICAL Total				\$12,581.84		\$10,446.90		\$3,697.20		\$0.00	\$0.00	\$26,725.94
	Project DBA Total				\$27,864.69		\$28,480.17		\$12,111.44		\$0.00	\$0.00	\$68,456.29
	Grand Total				\$27,864.69		\$28,480.17		\$12,111.44		\$0.00	\$0.00	\$68,456.29

Category	Percent	Amount
Labor	40.70%	\$27,865
Material	41.60%	\$28,480
Equipment	17.69%	\$12,111
Subcontractor	0.00%	\$0
Other	0.00%	\$0
Net Costs		\$68,456
Labor Mark-up	18.00%	\$5,016
Material Mark-up	15.00%	\$4,272
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$1,817
Sales tax (material)	7.75%	\$2,207
Sales tax (equipment)	7.75%	\$939
Material Shipping & Handling	2.50%	\$712
Worker's Travel/Subsistence	0.10%	\$28
Subtotal		\$83,446
Contractor General Conditions	12.00%	\$10,014
Subtotal		\$93,460
Earthquake Insurance	0.10%	\$93
Subtotal		\$93,553
Construction Contingency	25.00%	\$23,388
Subtotal		\$116,942
Bldg Risk, Liability Auto Ins.	2.00%	\$2,339
Subtotal		\$119,281
Performance Bond	1.00%	\$1,193
Payment Bond	1.00%	\$1,193
Subtotal		\$121,666
Engineering Fee	10.00%	\$6,846
Environmental Permitting (Lump Sum)	-	\$10,000
Total Estimate		\$138,512



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: Jim Warford

Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 03

Estimate Revision Date:: 5/24/2006

BC Project Manager:: Chris Herencia Estimate QA/QC Reviewer:: Bob Ferguson

Estimate QA/QC Date::

PROJECT LOCATION / PROCESS AREA

Project DBB

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project D	DBB												<u>'</u>
	ISDAL DEGLINGS ISDAL												
01 - GEI	IERAL REQUIREMENTS												
01200 -	General equipment rental												
	Trench box, 7200 lbs, 6'x 20'	10	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$116.00	\$1,160.00	\$116 / Day	\$0.00	\$0.00	\$1,160.00
	Trench Plates allowance	1	Мо	\$0.00	\$0.00	\$0.00	\$0.00	\$500.00	\$500.00	\$500 / Mo	\$0.00	\$0.00	\$500.00
	OFNEDAL DEGLEDER TO TALL				00.00		00.00		04.000.00		00.00		
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$1,660.00		\$0.00	\$0.00	\$1,660.00
02 - SITI	E CONSTRUCTION												
	Underground marking tape												
	Underground tape, detectable aluminum, 2"	7	Clf	\$2.34	\$16.85	\$3.06	\$22.03	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$38.88
02060	Site demolition Site dml, no hauling, pavement removal, bit, 4" to 6" thick	482	Sqyd	\$4.76	\$2,294.32	\$0.00	\$0.00	\$3.20	\$1,540.34	\$7.95 / Sayd	\$0.00	\$0.00	\$3,834.66
	Asphalt disposal - hauling and disposal fee, 4" thick	482	Sqyd	\$0.89		\$4.30	\$2,072.60	\$1.20				\$0.00	\$3,077.58
	Aspirate disposar Flading and disposarios, 4 thisk	402	Oqya	ψ0.00	ψ420.00	ψ4.00	Ψ2,072.00	ψ1.20	ψο / 0.00	φο.σσ / οσγα	ψ0.00	ψ0.00	φο,σττ.σο
02170 -	Saw cutting												
	Saw cutting, asphalt, up to 3" deep	1450	Lnft	\$0.78	\$1,131.00	\$0.15	\$217.50	\$0.40	\$586.81	\$1.33 / Lnft		\$0.00	\$1,935.31
	Saw cutting, asphalt, after 3" deep; each addl inch of depth	1450	Lnft	\$0.46	\$667.00	\$0.04	\$58.00	\$0.24	\$341.85	\$0.73 / Lnft	\$0.00	\$0.00	\$1,066.85
02240	Fine and de												
02310 - 1	Fine grade Fine grade, fine grade granular base for sidewalks and bikeways	482	Sqyd	\$0.96	\$462.72	\$0.00	\$0.00	\$0.16	\$79.05	\$1.12 / Sqyd	\$0.00	\$0.00	\$541.77
	The grade, the grade grandal base for sidewalks and blicways	402	Oqyu	ψ0.00	ψ402.12	ψ0.00	ψ0.00	ψ0.10	ψ/ 0.00	ψ1.127 Oqyd	ψ0.00	φο.σσ	φοτιτι
02340 - 1	Bedding												
	Bedding, crushed stone 3/4" to 1/2"	530	Cuyd	\$7.64	\$4,049.20	\$20.73	\$10,986.90	\$1.73		\$30.1 / Cuyd		\$0.00	\$15,953.41
	Bedding, crushed stone 3/4" to 1/2"	577	Cuyd	\$7.64	\$4,408.28	\$20.73	\$11,961.21	\$1.73	\$998.65	\$30.1 / Cuyd	\$0.00	\$0.00	\$17,368.14
02260	Compaction												
02300 - 1	Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes	440	Cuyd	\$1.76	\$774.40	\$0.00	\$0.00	\$0.47	\$204.68	\$2.22 / Cuyd	\$0.00	\$0.00	\$979.08
	Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	73	Cuyd	\$2.70		\$0.00	\$0.00	\$0.72	\$52.43			\$0.00	\$250.34
	Compaction, rammer tamper, 6" to 11", 4" lifts, 2 passes	456	Cuyd	\$2.70	\$1,230.66	\$0.00	\$0.00	\$0.72	\$326.00	\$3.41 / Cuyd	\$0.00	\$0.00	\$1,556.66
02450 - 1	Excavating, trench	4007		04.70	04 ==0 =4	* 0.00	00.00	0 4.00	04.000.70	00.00.40	# 0.00		
	Excavate trench, cont ftg, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	1027	Cuyd	\$1.73	\$1,776.71	\$0.00	\$0.00	\$1.30	\$1,338.76	\$3.03 / Cuyd	\$0.00	\$0.00	\$3,115.47
02460 -	Hauling												
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	1181	Cuyd	\$5.41	\$6,389.21	\$0.00	\$0.00	\$9.45	\$11,163.07	\$14.86 / Cuyd	\$0.00	\$0.00	\$17,552.28
	Loading Trucks, F.E. Loader, 3 C.Y	1181	Cuyd	\$0.66		\$0.00	\$0.00	\$1.13				\$0.00	\$2,118.19
	Disposal fee	59	Trk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$105 / Trk	\$0.00	\$6,200.25	\$6,200.25
02400	Fracian control												
0249U - I	Erosion control Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
	ETOGOTI CONTROL GROWATION.		Louili	ψ0.00	ψ0.00	ψυ.υυ	ψ0.00	Ψ0.00	Ψ0.00	ΨΣΟΙΤ / LSUIII	Ψ0.00	Ψ2,017.00	Ψ2,014.00
02570 -	Catch basins or manholes												
	Catch basins or manholes, concrete, precast, 8' I.D., 8' deep	3	Each		\$4,298.40	\$3,130.18	\$9,390.54	\$325.00		\$4887.98 / Each	\$0.00	\$0.00	\$14,663.94
	CB or manholes, conc, slab tops, precast, 8" thick, 4' dia	3	Each	\$143.28	\$429.84	\$177.27	\$531.81	\$32.50		\$353.05 / Each	\$0.00	\$0.00	\$1,059.15
	Catch bsns or manholes, frs and covs, hvy traffic, 24 diam, 400 lb.	3	Each Each	\$146.95 \$132.85		\$179.54 \$61.00	\$538.62 \$183.00	\$50.00 \$0.00		\$376.49 / Each \$193.85 / Each	\$0.00 \$0.00	\$0.00 \$0.00	\$1,129.47 \$581.55
	CB or manholes, inverts, single channel brick, concrete Catch basins or manholes, steps, standard sizes, aluminum	10	Each	\$132.85 \$8.94	\$398.55 \$89.40	\$61.00 \$17.05	\$183.00 \$170.50	\$0.00	\$0.00		\$0.00	\$0.00	\$581.58 \$259.90
	Junction structure	10	Each	\$619.52	\$619.52	\$5,000.00	\$5,000.00	\$0.00		\$5619.52 / Each	\$0.00	\$0.00	\$5,619.52
				70.000	Ţ3.3.0Z	72,22330	42,222.00	+1.00	\$0.00	, , , , , , , , , , , , , , , , , , , ,	\$3.00	71.00	Ţ2,2.0.0Z
02610 - ,	Asphalt concrete pavement												-
	Asphaltic conc pavement, pavement replacement over trench, 4"	482	Sqyd	\$31.92	\$15,385.44	\$7.22	\$3,480.04	\$2.73	\$1,316.06	\$41.87 / Sqyd	\$0.00	\$0.00	\$20,181.54

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
02640 - 1	Lines on pav't												
	Lines on pvmt, acrylic waterborne, white or yellow, 4" wide	720	Lnft	\$0.11	\$79.20	\$0.13	\$93.60	\$0.07	\$50.40	\$0.31 / Lnft	\$0.00	\$0.00	\$223.20
02840 -	Landscaping												
02040 - 1	Landscaping Allowance	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5000 / Lsum	\$5,000.00	\$0.00	\$5.000.00
	Traffic Control Allowance: 2 flaggers, 15' pipe/hr	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$4878 / Lsum	\$0.00		\$4,878.00
02900 -	Pot Holina												
	Pot Holing - pipe lines	28	Each	\$222.90	\$6,241.20	\$0.00	\$0.00	\$28.21	\$790.00	\$251.11 / Each	\$0.00	\$0.00	\$7,031.20
	SITE CONSTRUCTION Total				\$52,589.10		\$44,706.35		\$22,842.63		\$5,000.00	\$13,692.25	\$138,830.33
03 - COI	NCRETE												
03330 - 1	Patching concrete												
	80 Patching conc, wall, wall penetration, non-shrink grout, 24" hole	2	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	*	\$750 / Cuyd		* /	\$1,500.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$1,500.00	\$1,500.00
15 - ME	CHANICAL												
15090 - 1	Pipe,drng&sewage,concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 30" dia	720	Lnft	\$30.95	\$22,284.00	\$22.96	\$16,531.20	\$10.27	* /	\$64.18 / Lnft	*		\$46,209.60
	Piping, water dist, conc pipe, gasket, 36" dia	72	Each	\$2.85	\$205.20	\$5.53	\$398.16	\$0.00	\$0.00	\$8.38 / Each	\$0.00	\$0.00	\$603.36
	MECHANICAL Total				\$22,489.20		\$16,929.36		\$7,394.40		\$0.00	\$0.00	\$46,812.96
	Project DBB Total				\$75,078.30		\$61,635.71		\$31,897.03		\$5,000.00	\$15,192.25	\$188,803.29
	Grand Total				\$75,078.30		\$61,635.71		\$31,897.03		\$5,000.00	\$15,192.25	\$188,803.29

Category	Percent	Amount
Labor	39.77%	\$75,078
Material	32.65%	\$61,636
Equipment	16.89%	\$31,897
Subcontractor	2.65%	\$5,000
Other	8.05%	\$15,192
Net Costs		\$188,803
Labor Mark-up	18.00%	\$13,514
Material Mark-up	15.00%	\$9,245
Subcontractor Mark-up	5.00%	\$250
Equipment Mark-up	15.00%	\$4,785
Sales tax (material)	7.75%	\$4,777
Sales tax (equipment)	7.75%	\$2,472
Material Shipping & Handling	2.50%	\$1,541
Worker's Travel/Subsistence	0.10%	\$75
Subtotal		\$225,462
Contractor General Conditions	12.00%	\$27,055
Subtotal	12.0070	\$252,518
Earthquake Insurance	0.10%	\$253
Subtotal		\$252,770
Construction Contingency	25.00%	\$63,193
Subtotal		\$315,963
Bldg Risk, Liability Auto Ins.	2.00%	\$6,319
Subtotal		\$322,282
Performance Bond	1.00%	\$3,223
Payment Bond	1.00%	\$3,223
Subtotal		\$328,727
Engineering Fee	10.00%	\$18,880
Environmental Permitting (Lump Sum)	-	\$7,000
Total Estimate		\$354,608



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: Jim Warford Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 00

Estimate Revision Date::

BC Project Manager:: Chris Herencia Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date::

PROJECT LOCATION / PROCESS AREA

Project DFA

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project D	PFA .												
04 05	JEDAL DECLUDEMENTS												
01 - GEI	NERAL REQUIREMENTS												
01200 -	General equipment rental												
01200	Trench box, 9500 lbs, 8'x 20'	10	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$131.75	\$1,317.50	\$131.75 / Day	\$0.00	\$0.00	\$1,317.50
	Trench Plates allowance	1	Мо	\$0.00	\$0.00	\$0.00	\$0.00	\$500.00	\$500.00		\$0.00	\$0.00	\$500.00
01210 -	Lifting and hoisting equipment												
01210	Rent crane truck mounted, hydraulic, 55 ton capacity - Type B	10	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10000 / Day	\$10,000.00	\$0.00	\$10,000.00
	, , , , , , , , , , , , , , , , , , ,	-		*			•	• • • • • • • • • • • • • • • • • • • •	*		* -,	•	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$1,817.50		\$10,000.00	\$0.00	\$11,817.50
02 - SITI	E CONSTRUCTION												
02320 - 1	Backfill Backfill, dozer backfilling, trench, up to 300' haul, no compaction	175	Cuyd	\$0.71	\$124.25	\$0.00	\$0.00	\$1.17	\$205.11	\$1.88 / Cuyd	\$0.00	\$0.00	\$329.36
00040													
02340 - 1	Bedding Base course, large areas, crushed 3/4" stone, compacted to 9" deep	355	Sqyd	\$0.73	\$259.15	\$6.88	\$2,442.40	\$0.93	\$330.42	\$8.54 / Sqyd	\$0.00	\$0.00	\$3,031.97
	base course, large areas, crusined 5/4 stone, compacted to 5 deep	333	Oqyu	ψ0.73	Ψ200.10	ψ0.00	Ψ2, 44 2.40	ψ0.33	ψ550.42	ψ0.547 Oqyu	ψ0.00	ψ0.00	ψ5,051.57
02360 -	Compaction												
	Compaction, walk behind, vibrating roller 24" W, 6" lifts, 2 passes	175	Cuyd	\$1.76		\$0.00	\$0.00	\$0.47	\$81.41	\$2.22 / Cuyd	\$0.00	\$0.00	\$389.4
	Compaction, rammer tamper, 6" to 11", 4" lifts, bedding	175	Cuyd	\$2.70	\$472.50	\$0.00	\$0.00	\$0.72	\$125.16		\$0.00	\$0.00	\$597.66
	Compaction, rammer tamper, 6" to 11", 4" lifts, backfill	175	Cuyd	\$2.70	\$472.50	\$0.00	\$0.00	\$0.72	\$125.16	\$3.41 / Cuyd	\$0.00	\$0.00	\$597.66
00.450	Excavating, trench												
02450 - 1	Excavating, trench Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	400	Cuyd	\$1.56	\$624.00	\$0.00	\$0.00	\$1.17	\$469.40	\$2.73 / Cuyd	\$0.00	\$0.00	\$1,093.40
	Excavate trench, common earth curb, 0-10 deep, 1-1/2 01 hyd	400	Cuyu	ψ1.50	Ψ024.00	ψ0.00	ψ0.00	Ψ1.17	ψ+05.40	ψ2.737 Odyd	ψ0.00	ψ0.00	ψ1,033.40
02460 - 1	Hauling												
	Hauling, LCY, no loading, 20 c.y. dump truck, 30 MI RT, 0.33 lds/hr	175	Cuyd	\$5.41	\$946.75	\$0.00	\$0.00	\$9.45	\$1,654.14	\$14.86 / Cuyd	\$0.00	\$0.00	\$2,600.89
	Loading Trucks, F.E. Loader, 3 C.Y	175	Cuyd	\$0.66	\$115.50	\$0.00	\$0.00	\$1.13	\$198.37	\$1.79 / Cuyd	\$0.00	\$0.00	\$313.87
02470	Soil stabilization												
02470 - 1	Soil stabilization, geotextile fabric, woven, H.D., 600 lb. tensile st	50	Sqyd	\$0.29	\$14.50	\$1.71	\$85.50	\$0.00	\$0.00	\$2 / Sqyd	\$0.00	\$0.00	\$100.00
	Soli stabilization, geotextile labric, woveri, m.b., 600 lb. tensile st	30	Sqyu	ψ0.29	φ14.50	φ1.71	φ65.50	φ0.00	φ0.00	\$2 / Sqyu	φ0.00	φ0.00	\$100.00
02480 -	Rip-rap												
	Backing Material class #1	5	Cuyd	\$15.05	\$75.25	\$40.10	\$200.50	\$18.79	\$93.94		\$0.00	\$0.00	\$369.69
	Rip-rap, mach placed for slp protec, 18" min thick. not grouted	25	Sqyd	\$51.39	\$1,284.75	\$119.00	\$2,975.00	\$18.78	\$469.50	\$189.16 / Sqyd	\$0.00	\$0.00	\$4,729.25
02490 -	Erosion control												
	Erosion control allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2614 / Lsum	\$0.00	\$2,614.00	\$2,614.00
02570 -	Catch basins or manholes												
	Junction structure	2	Each	\$619.52	\$1,239.04	\$5,000.00	\$10,000.00	\$0.00	\$0.00	\$5619.52 / Each	\$0.00	\$0.00	\$11,239.04
	CB or manholes, conc, precast, 4' ID, 6' deep	2	Each	\$497.85	\$995.70	\$482.94	\$965.88	\$135.67		\$1116.45 / Each	\$0.00	\$0.00	\$2,232.91
	CB or manholes, conc, slab tops, precast, 8" thick, 4' dia	2	Each	\$143.28	\$286.56	\$177.27	\$354.54	\$32.50		\$353.05 / Each	\$0.00	\$0.00	\$706.10
	Catch bsns or manholes, frs and covs, hvy traffic, 24" diam, 400 lb.	2	Each	\$146.95	\$293.90	\$179.54	\$359.08	\$50.00		\$376.49 / Each	\$0.00	\$0.00	\$752.98
	CB or manholes, inverts, single channel brick, concrete	2	Each	\$132.85	\$265.70	\$61.00	\$122.00	\$0.00		\$193.85 / Each	\$0.00	\$0.00	\$387.70
	Catch basins or manholes, steps, standard sizes, aluminum	6	Each	\$8.94	\$53.64	\$17.05	\$102.30	\$0.00	\$0.00	\$25.99 / Each	\$0.00	\$0.00	\$155.94
	SITE CONSTRUCTION Total				\$7,831.69		\$17,607.20		\$4,188.96		\$0.00	\$2,614.00	\$32,241.85

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
15 - MEC	CHANICAL												
15090 - 1	Pipe,drng&sewage,concret												
	Piping, drainage & sewage, RCP, class 3, no gaskets, 72" dia	8	Lnft	\$68.09	\$544.72	\$126.50	\$1,012.00	\$32.38	\$259.04	\$226.97 / Lnft	\$0.00	\$0.00	\$1,815.76
	Piping, water dist, conc pipe, gasket, 72" dia	1	Each	\$2.85	\$2.85	\$30.46	\$30.46	\$0.00	\$0.00	\$33.31 / Each	\$0.00	\$0.00	\$33.31
	Piping, drainage & sewage, RCP, class 3, no gaskets, 48" dia	16	Lnft	\$42.56	\$680.96	\$55.75	\$892.00	\$20.21	\$323.36	\$118.52 / Lnft	\$0.00	\$0.00	\$1,896.32
	Piping, water dist, conc pipe, gasket, 48" dia	2	Each	\$2.85	\$5.70	\$7.68	\$15.36	\$0.00	\$0.00	\$10.53 / Each	\$0.00	\$0.00	\$21.06
15095 - 1	Process Equipment												
	Process Equipment - Vortech Precast	1	Each	\$3,500.00	\$3,500.00	\$42,000.00	\$42,000.00	\$0.00	\$0.00	\$45500 / Each	\$0.00	\$0.00	\$45,500.00
	MECHANICAL Total				\$4,734.23		\$43,949.82		\$582.40		\$0.00	\$0.00	\$49,266.45
	Project BLU Total				\$12,565.92		\$61,557.02		\$6,588.86		\$10,000.00	\$2,614.00	\$93,325.80
	Grand Total				\$12,565.92		\$61,557.02		\$6,588.86		\$10,000.00	\$2,614.00	\$93,325.80

Category	Percent	Amount
Labor	13.46%	\$12,566
Material	65.96%	\$61,557
Equipment	7.06%	\$6,589
Subcontractor	10.72%	\$10,000
Other	2.80%	\$2,614
Net Costs		\$93,326
Labor Mark-up	18.00%	\$2,262
Material Mark-up	15.00%	\$9,234
Subcontractor Mark-up	5.00%	\$500
Equipment Mark-up	15.00%	\$988
Sales tax (material)	7.75%	\$4,771
Sales tax (equipment)	7.75%	\$511
Material Shipping & Handling	2.50%	\$1,539
Worker's Travel/Subsistence	0.10%	\$13
Subtotal		\$113,142
Contractor General Conditions	12.00%	\$13,577
Subtotal	12.0070	\$126,719
Earthquake Insurance	0.10%	\$127
Subtotal		\$126,846
Construction Contingency	25.00%	\$31,712
Subtotal		\$158,558
Bldg Risk, Liability Auto Ins.	2.00%	\$3,171
Subtotal		\$161,729
Performance Bond	1.00%	\$1,617
Payment Bond	1.00%	\$1,617
Subtotal		\$164,963
Engineering Fee	10.00%	\$9,333
Environmental Permitting (Lump Sum)	-	\$49,000
Total Estimate		\$223,296



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: Jim Warford Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 00

Estimate Revision Date::

BC Project Manager:: Chris Herencia Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date::

PROJECT LOCATION / PROCESS AREA

Project DQB

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project D	QB												
01 CE	NERAL REQUIREMENTS												
UI - GE	NERAL REQUIREMENTS												
01200 -	General equipment rental												
	Trench box, 9500 lbs, 8'x 20'	20	Day	\$0.00	\$0.00	\$0.00	\$0.00	\$131.75	\$2,635.00	\$131.75 / Day	\$0.00	\$0.00	\$2,635.00
	GENERAL REQUIREMENTS Total				\$0.00		\$0.00		\$2.02E.00		\$0.00	\$0.00	\$2,635.00
02 - 517	GENERAL REQUIREMENTS TOTAL TE CONSTRUCTION				\$0.00		\$0.00		\$2,635.00		\$0.00	\$0.00	\$2,635.00
02 011	2 concinconon												
02020 -	Underground marking tape												
	Underground tape, detectable aluminum, 2"	25	Clf	\$2.34	\$58.50	\$3.06	\$76.50	\$0.00	\$0.00	\$5.4 / Clf	\$0.00	\$0.00	\$135.00
00000	DLEII												
02320 -	Backfill Backfill, dozer backfilling, trench, up to 300' haul, no compaction	3241	Cuyd	\$0.71	\$2.300.90	\$0.00	\$0.00	\$1.17	\$3,798,35	\$1.88 / Cuyd	\$0.00	\$0.00	\$6.099.25
	Backlini, dozer backlining, trenen, up to 500 maur, no compaction	3241	Cuyu	ψ0.71	Ψ2,300.30	ψ0.00	ψ0.00	Ψ1.17	ψ3,730.33	ψ1.00 / Ouyu	Ψ0.00	ψ0.00	ψ0,033.20
02340 -	Bedding												
	Bedding, crushed stone 3/4" to 1/2"	1000	Cuyd	\$7.64	\$7,640.00	\$20.73	\$20,730.00	\$1.73	\$1,730.77	\$30.1 / Cuyd	\$0.00	\$0.00	\$30,100.77
02360 -	Compaction transh well habited with plate hadding	1846	Cuyd	\$1.76	\$3.248.08	\$0.00	\$0.00	\$0.47	\$858.48	\$2.22 / Cuyd	\$0.00	\$0.00	\$4.106.56
	Compaction, trench, walk behind, vib. plate, bedding Compaction, trench, walk behind, vib. plate, subgrade	278	Cuyd	\$1.76		\$0.00	\$0.00	\$0.47	\$129.22	, .		\$0.00	\$4,106.56
	Compaction, trench, walk behind, vib. plate, backfill	2917	Cuyd	\$1.76		\$0.00	\$0.00	\$0.47				\$0.00	\$6,490.16
			Í				·						
02450 -	Excavating, trench												
	Excavate trench, no sht or dewtrg, 4'-6' D, 1-1/2 CY hyd bac	5417	Cuyd	\$1.73	\$9,370.89	\$0.00	\$0.00	\$1.30	\$7,061.00	\$3.03 / Cuyd	\$0.00	\$0.00	\$16,431.89
02570	Catch basins or manholes												
02370 -	Junction structure	1	Each	\$619.52	\$619.52	\$5,000,00	\$5.000.00	\$0.00	\$0.00	\$5619.52 / Each	\$0.00	\$0.00	\$5,619.52
	Catch basins or manholes, concrete, precast, 6' I.D., 6' deep	5	Each	\$764.16		\$1,079.50	\$5,397.50	\$173.20		\$2016.86 / Each		\$0.00	\$10,084.30
	CB or manholes, conc, slab tops, precast, 8" thick, 4' dia	5	Each	\$143.28	\$716.40	\$177.27	\$886.35	\$32.50		\$353.05 / Each	\$0.00	\$0.00	\$1,765.25
	Catch bsns or manholes, frs and covs, hvy traffic, 24 diam, 400 lb.	5	Each	\$146.95		\$179.54	\$897.70	\$50.00		\$376.49 / Each		\$0.00	\$1,882.45
	CB or manholes, inverts, single channel brick, concrete	5	Each	\$132.85		\$61.00	\$305.00	\$0.00	\$0.00			\$0.00	\$969.25
	Catch basins or manholes, steps, standard sizes, aluminum	15	Each	\$8.94	\$134.10	\$17.05	\$255.75	\$0.00	\$0.00	\$25.99 / Each	\$0.00	\$0.00	\$389.85
	SITE CONSTRUCTION Total				\$32,681.01		\$31,204.00		\$15,800.59		\$0.00	\$0.00	\$79,685.60
03 - CC	NCRETE				V 0=,001101		V 0 1, = 0 1100		V.0,000.00		70.00	*****	* ,
03150 -	Concrete, ready mix	_											*
	Headwall	5	Cuyd	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750 / Cuyd	\$0.00	\$3,750.00	\$3,750.00
	CONCRETE Total				\$0.00		\$0.00		\$0.00		\$0.00	\$3,750.00	\$3,750.00
	SOME THE FORM				\$5.50		\$5.50		\$5.00		\$5.00	\$3,. 00.00	\$0,, 00.00
15 - ME	CHANICAL												
15090 -	Piping, drainage & sewage, RCP, class 3, no gaskets, 36" dia	2500	Lnft	\$37.83	₽0.4 E7E 00	\$32.80	\$82.000.00	\$12.50	\$31,250.00	f02.42 / L=f	\$0.00	\$0.00	\$207.825.00
	Piping, drainage & sewage, RCP, class 3, no gaskets, 36" dia Piping, drainage & sewage, RCP, class 3, no gaskets, 36" dia	2500 250	Lnft	\$37.83 \$37.83	\$94,575.00 \$9,457.50	\$32.80 \$32.80	\$82,000.00	\$12.50 \$12.50				\$0.00 \$0.00	\$207,825.00
	i iping, drainage a serrage, nor , diass 3, no gashets, 30 ala	230	Lill	ψυ1.00	ψο,τοι.30	ψ02.00	ψ0,200.00	Ψ12.30	ψ3,123.00	ψ05.15 / ΕΠΙ	Ψ0.00	ψ0.00	Ψ20,102.30
	MECHANICAL Total				\$94,575.00		\$82,000.00		\$31,250.00		\$0.00	\$0.00	\$207,825.00
				•									
	Project DQB Total				\$127,256.01		\$113,204.00		\$49,685.59		\$0.00	\$3,750.00	\$293,895.60
	Grand Total				\$127.256.01		\$113.204.00		\$49.685.59		\$0.00	\$3.750.00	\$293.895.60
	Granu rotai				10.062,1216		\$113,ZU4.UU		\$49,065.59		\$0.00	\$3,750.00	ა∠ყა,895 .

Category	Percent	Amount
Labor	43.30%	\$127,256
Material	38.52%	\$113,204
Equipment	16.91%	\$49,686
Subcontractor	0.00%	\$0
Other	1.28%	\$3,750
Net Costs		\$293,896
Labor Mark-up	18.00%	\$22,906
Material Mark-up	15.00%	\$16,981
•	5.00%	
Subcontractor Mark-up		\$0
Equipment Mark-up	15.00%	\$7,453
Sales tax (material)	7.75%	\$8,773
Sales tax (equipment)	7.75%	\$3,851
Material Shipping & Handling	2.50%	\$2,830
Worker's Travel/Subsistence	0.10%	\$127
Subtotal		\$356,816
Contractor General Conditions	12.00%	\$42,818
Subtotal		\$399,634
Earthquake Insurance	0.10%	\$400
Subtotal		\$400,034
Construction Contingency	20.00%	\$80,007
Subtotal		\$480,041
Bldg Risk, Liability Auto Ins.	2.00%	\$9,601
Subtotal		\$489,642
Performance Bond	1.00%	\$4,896
Payment Bond	1.00%	\$4,896
Subtotal		\$499,434
Engineering Fee	10.00%	\$29,390
Environmental Permitting (Lump Sum)	-	\$17,000
Total Estimata		6545 004
Total Estimate		\$545,824



Project Number:: 128290

> Client:: City of Carlsbad

Estimator(s):: Jim Warford Walnut Creek

Estimating Office::

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 00

Estimate Revision Date::

Chris Herencia BC Project Manager:: Estimate QA/QC Reviewer:: **Butch Matthews**

Estimate QA/QC Date::

PROJECT LOCATION / PROCESS AREA

Project DH

Item	Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project D	H												
02 - SIT	E CONSTRUCTION												
02000	Site demolition												
02060 -	Site demo, Area vegetation removal	1	Acre	\$1,598.62	\$1,822.43	\$0.00	\$0.00	\$3,356.14	\$3 836 00	\$4954.76 / Acre	\$0.00	\$0.00	\$5,648.43
	Site demo, Area vegetation removal		ACIE	\$1,550.02	ψ1,022.43	\$0.00	φυ.υυ	φ3,330.14	ψ3,820.00	ф4954.707 Acre	φ0.00	φ0.00	φ5,040.45
02330 -	Backfill, structural												
	Backfill, side slope fill	405	Cuyd	\$0.52	\$210.38	\$0.00	\$0.00	\$1.20	\$486.27	\$1.72 / Cuyd	\$0.00	\$0.00	\$696.65
02360 -	Compaction												
	Compaction, rammer tamper, 6" to 11", 4" lifts, backfill	2750	Cuyd	\$2.70	\$7,425.00	\$0.00	\$0.00	\$0.72	\$1,966.87	\$3.41 / Cuyd	\$0.00	\$0.00	\$9,391.87
02410 -	Excavation, bulk, scrapers	0500	01	\$1.15	₾0.075.00	\$0.00	\$0.00	04.75	\$44.077.00	ΦE 0 / 0	\$0.00	#0.00	#44.750.00
	Excavation, self prop scraper, 14 CY 1/4 push dozer	2500	Cuyd	\$1.15	\$2,875.00	\$0.00	\$0.00	\$4.75	\$11,877.36	\$5.9 / Cuyd	\$0.00	\$0.00	\$14,752.36
02430 -	Fill		\rightarrow										
02430	Fill, spread fill, with dozer	2750	Cuyd	\$1.07	\$2,942.50	\$0.00	\$0.00	\$2.46	\$6,751.46	\$3.52 / Cuyd	\$0.00	\$0.00	\$9,693.96
				*****	Q =,0 1=100	70.00		V =	42,121110	+	V 0.00	70.00	**,*******
02460 -	Hauling												
	Backfill, dozer backfilling no compaction	2750	Cuyd	\$1.76	\$4,840.00	\$0.00	\$0.00	\$0.47	\$1,279.22	\$2.22 / Cuyd	\$0.00	\$0.00	\$6,119.22
02480 -	Rip-rap												
	Rip-rap, gabions, galv steel mesh boxes, stone filled, 36" deep	200	Cuyd	\$67.91	\$13,582.00	\$42.49	\$8,498.00	\$24.56	\$4,912.00	\$134.96 / Cuyd	\$0.00	\$0.00	\$26,992.00
02.400	Erosion control		\longrightarrow										
02490 -	Erosion control Erosion control, polypropylene mesh, stapled, 6.5 oz./s.y	2052	Sayd	\$0.44	\$902.95	\$1.10	\$2,257.38	\$0.00	\$0.00	\$1.54 / Sqyd	\$0.00	\$0.00	\$3,160.33
	Liosion control, polypropylene mesh, stapled, 6.3 62./s.y	2032	Sqyu	ψ0. 44	φ302.33	\$1.10	ΨΖ,Ζ37.30	\$0.00	φυ.υυ	\$1.547 5qyu	φ0.00	φ0.00	φ5,100.55
02600 -	Base course						-						
,	Area aggregate, crushed 3/4" stone, compacted to 9" deep	4148	Sqyd	\$0.73	\$3,028.04	\$6.88	\$28,538.24	\$0.90	\$3,733.00	\$8.5 / Sqyd	\$0.00	\$0.00	\$35,299.28
	1 1			·					í	.,,			
	SITE CONSTRUCTION Total				\$37,628.29		\$39,293.62		\$34,832.19		\$0.00	\$0.00	\$111,754.10
													
	Project DH Total				\$37,628.29		\$39,293.62		\$34,832.19		\$0.00	\$0.00	\$111,754.10
	O d T				¢07.000.00		\$00.005.55		604 005 45			***	\$444.7E4.40
	Grand Total				\$37,628.29		\$39,293.62		\$34,832.19		\$0.00	\$0.00	\$111,754.10

Category	Percent	Amount
Labor	33.67%	\$37,628
Material	35.16%	\$39,294
Equipment	31.17%	\$34,832
Subcontractor	0.00%	\$0
Other	0.00%	\$0
Net Costs		\$111,754
Labor Mark-up	18.00%	\$6,773
Material Mark-up	15.00%	\$5,894
Subcontractor Mark-up	5.00%	\$0
Equipment Mark-up	15.00%	\$5,225
Sales tax (material)	7.75%	\$3,045
Sales tax (equipment)	7.75%	\$2,699
Material Shipping & Handling	2.50%	\$982
Worker's Travel/Subsistence	0.10%	\$38
Subtotal		\$136,411
Contractor General Conditions	12.00%	\$16,369
Subtotal		\$152,780
Earthquake Insurance	0.10%	\$153
Subtotal		\$152,933
Construction Contingency	25.00%	\$38,233
Subtotal		\$191,166
Bldg Risk, Liability Auto Ins.	2.00%	\$3,823
Subtotal		\$194,989
Performance Bond	1.00%	\$1,950
Payment Bond	1.00%	\$1,950
Subtotal		\$198,889
Engineering Fee	10.00%	\$11,175
Environmental Permitting (Lump Sum)	•	\$17,000
Total Estimate		\$227,065



Project Number:: 128290

Client:: City of Carlsbad

Estimator(s):: Jim Warford Estimating Office:: Walnut Creek

Estimate Issue Number:: 01

Estimate Original Issue Date:: 3/14/2006

Estimate Revision Number:: 00

Estimate Revision Date::

BC Project Manager:: Chris Herencia Estimate QA/QC Reviewer:: Butch Matthews

Estimate QA/QC Date::

PROJECT LOCATION / PROCESS AREA

Project DZ

Item Description	Quantity	Unit	Labor \$/Unit	Labor Amount	Materials \$/Unit	Materials Amount	Equip \$/Unit	Equip Amount	Total \$/Unit	Subs Amount	Other Amount	Grand Total
Project DZ												
02310 - Fine grade												
Fine grade under asphalt	333	Sqyd	\$0.77	\$256.41	\$0.00	\$0.00	\$0.16	\$54.62	\$0.93 / Sqyd	\$0.00	\$0.00	\$311.03
02360 - Compaction	704	01	#0.70	#4 004 00	# 0.00	\$0.00	60.70	#504.00	f0 44 / 0	# 0.00	\$0.00	#0.500.7
Compaction, rammer tamper, 6" to 11", 4" lifts, backfill	734	Cuyd	\$2.70	\$1,981.80	\$0.00	\$0.00	\$0.72	\$524.98	\$3.41 / Cuyd	\$0.00	\$0.00	\$2,506.78
02450 - Excavating, trench												
Excavate trench, common earth curb, 6'-10' deep, 1-1/2 CY hyd	2000	Cuyd	\$1.56	\$3,120.00	\$0.00	\$0.00	\$1.17	\$2,347.02	\$2.73 / Cuyd	\$0.00	\$0.00	\$5,467.02
02480 - Rip-rap												
Rip-rap, energy dissipater	155	Sqyd	\$51.39	\$7,965.45	\$21.72	\$3.366.60	\$17.04	\$2,641.46	\$90.15 / Sqyd	\$0.00	\$0.00	\$13,973.51
		,,	·		·				. 12			
02490 - Erosion control												
Erosion control Erosion control, polypropylene mesh, stapled, 6.5 oz./s.y	2052	Sqyd	\$0.44	\$902.95	\$1.10	\$2,257.38	\$0.00	\$0.00	\$1.54 / Sqyd	\$0.00	\$0.00	\$3,160.33
Erodion control, polypropytone meen, etapied, eta ozwe.y	2002	Oqyu	ψ0.44	Ψ00Z.00	ψ1.10	ΨΣ,ΣΟΤ.ΟΟ	ψ0.00	ψ0.00	ψ1.047 Oqyα	ψ0.00	Ψ0.00	ψ0,100.00
02600 - Base course												
Area aggregate, crushed 3/4" stone, compacted to 9" deep	155	Sqyd	\$0.73	\$113.15	\$6.88	\$1,066.40	\$0.90	\$139.49	\$8.5 / Sqyd	\$0.00	\$0.00	\$1,319.04
02840 - Landscaping												
Landscaping Allowance:	1	Lsum	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$500 / Lsum	\$500.00		\$500.00
Traffic Control Allowance:	1	Lsum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$500 / Lsum		\$500.00	\$500.00
SITE CONSTRUCTION Total				\$14,339.76		\$6,690.38		\$5,707.56		\$500.00	\$500.00	\$27,737.70
03 - CONCRETE												
03150 - Concrete, ready mix												
10'x12' RCB Culvert (2)	375 5	Cuyd	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00		\$750 / Cuyd			\$281,250.00
Headwall Headwall	5	Cuyd Cuyd	\$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00		\$750 / Cuyd \$750 / Cuyd		4-7	\$3,750.00 \$3,750.00
CONCRETE Total	3	Cuyu	φυ.υυ	\$0.00	φυ.υυ	\$0.00 \$0.00	φυ.υυ	\$0.00	φ/30 / Cuyu	\$0.00	\$288,750.00	\$288,750.00
						,		,		, , , ,	, , , , , , , ,	, 11, 1010
Project DZ Total				\$14,339.76		\$6,690.38		\$5,707.56	-	\$500.00	\$289,250.00	\$316,487.70
				\$14,339,76		\$6,690,38		\$5,707,56		\$500.00	\$289.250.00	\$316,487.70
l .				\$14,339.76		\$6,690.38		\$5,707.56		\$500.00	\$289,250.00	\$376,48 <i>7.1</i>

Percent	Amount
4.53%	\$14,340
2.11%	\$6,690
1.80%	\$5,708
0.16%	\$500
91.39%	\$289,250
	\$316,488
18 00%	\$2,581
	\$1,004
	\$1,004 \$25
	\$856
	\$519
	\$442
	\$167
	\$14
	
	\$322,096
12.00%	\$38,652
	\$360,748
0.10%	\$361
	\$361,108
20.00%	\$72,222
	\$433,330
2.00%	\$8,667
	\$441,997
1.00%	\$4,420
1.00%	\$4,420
	\$450,836
10.00%	\$31,649
-	\$10,000
	\$492,485
	4.53% 2.11% 1.80% 0.16% 91.39% 18.00% 15.00% 5.00% 7.75% 7.75% 2.50% 0.10% 12.00% 20.00% 1.00% 1.00% 1.00%